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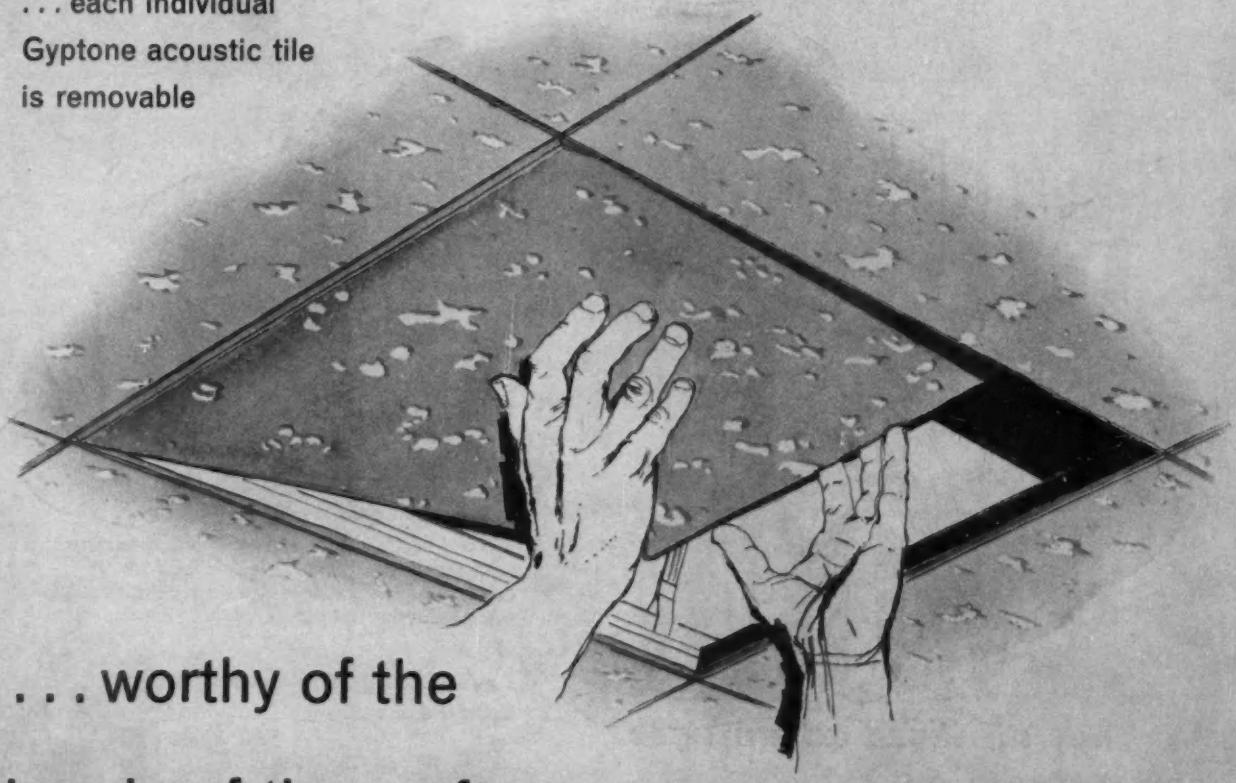

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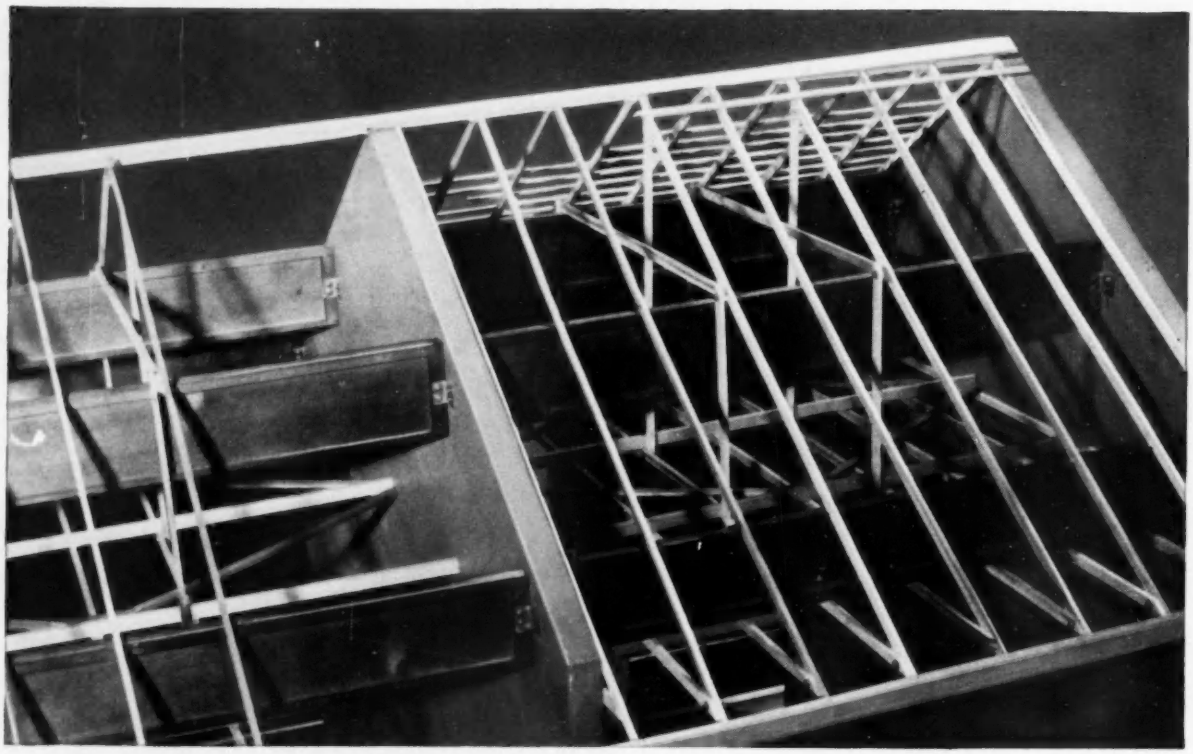
For modern roof construction in housing



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- Big economies in cost—'front' and 'back' walls are non-load bearing and require no foundations or elaborate footings
- When lightweight, low-cost timber infilling panels or curtain walling are used, overall cost is further reduced
- Greater freedom in interior planning, as 'cross-walls' support roofs and floors

Special roof designs for cross-wall construction have been prepared by the TDA. A folder containing plans of these, and further information, will be sent on request.

For full details of timber cross-wall roofing or timber curtain walling

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TGA TD165/1

Illustration shows "The Weymarks" flats in Weir Hall Road, Tottenham, where Tretolin paint was used extensively on new concrete and brickwork. Borough Engineer and Surveyor: W. BRYANT, A.M.I.C.E., M.I. MUN.E., M.R.S.H. Chief Architect: V. A. JOLLEY, A.R.I.B.A.

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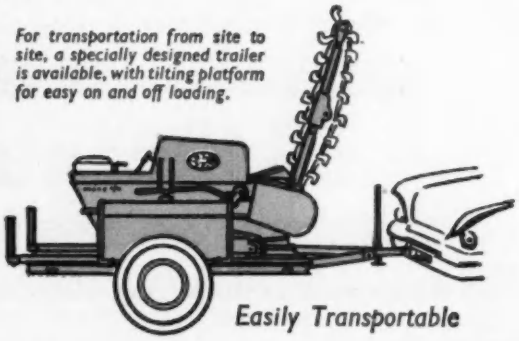

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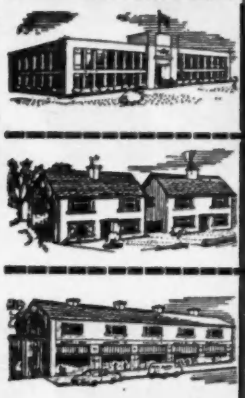

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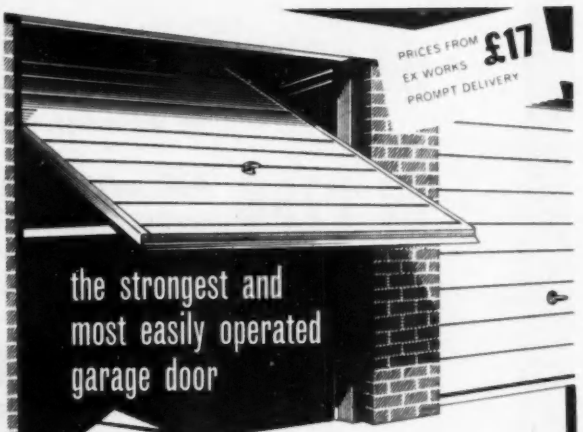

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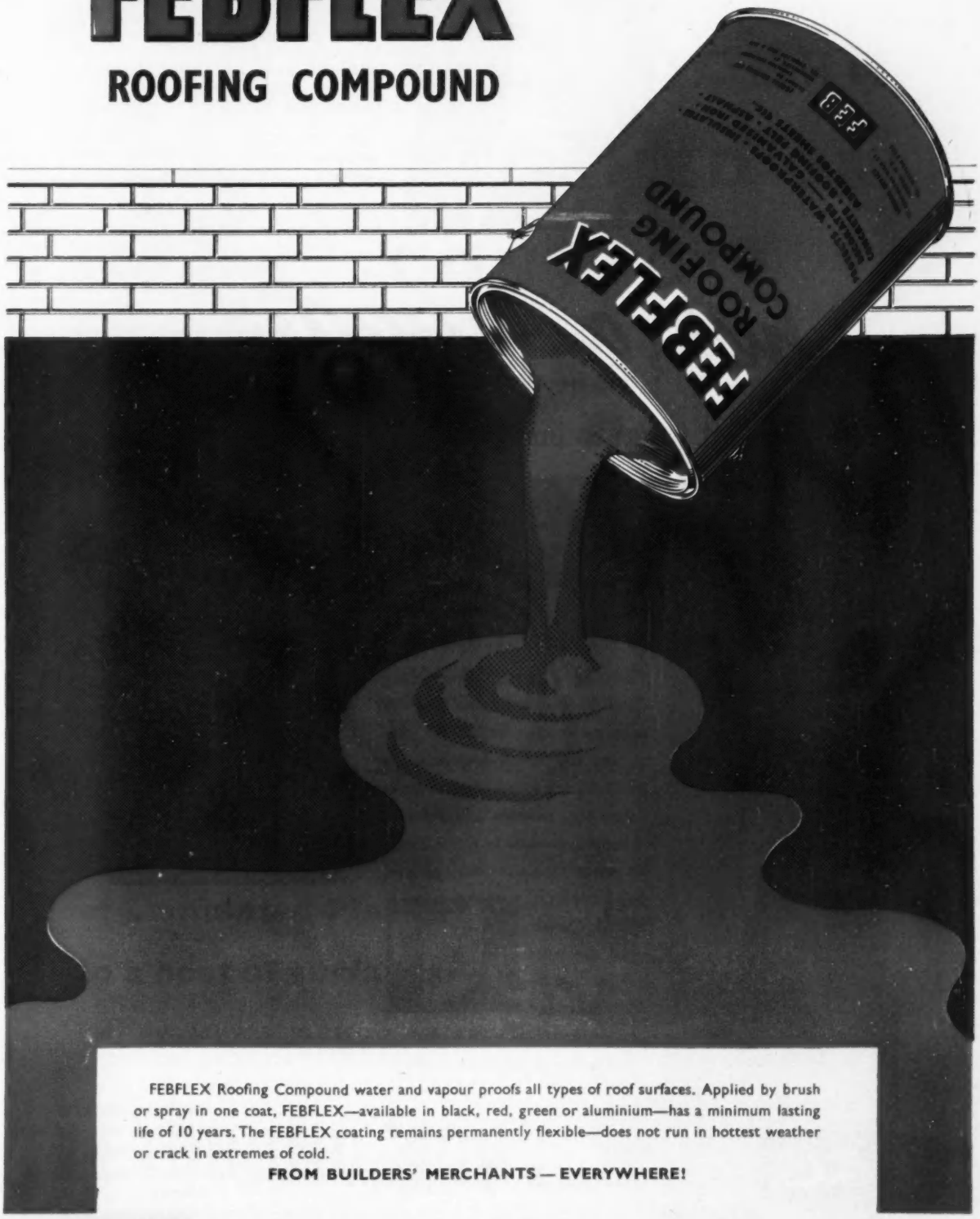

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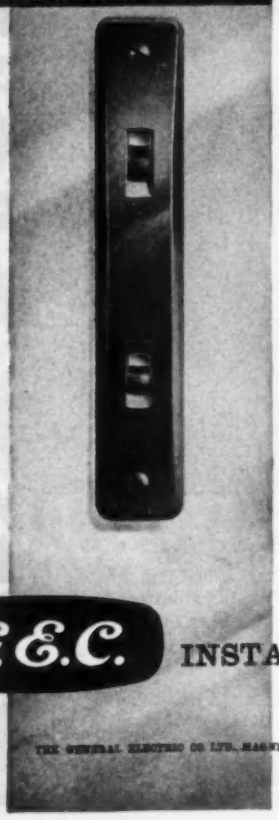

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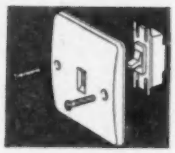
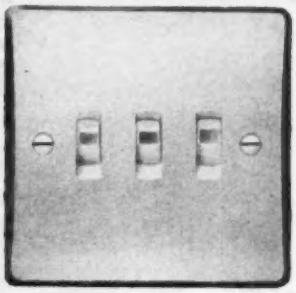


PLASTER DEPTH SWITCH ASSEMBLY



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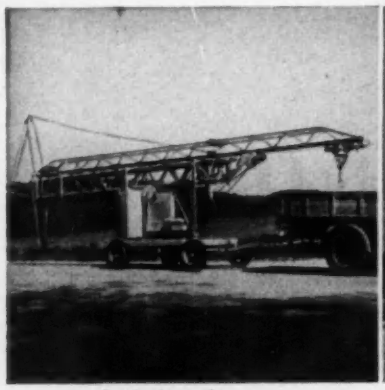
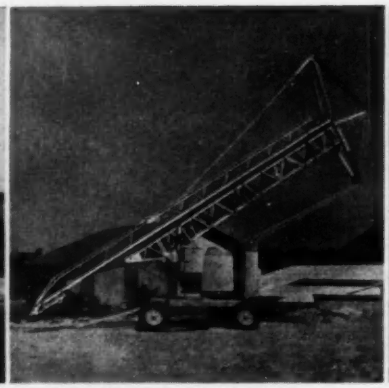
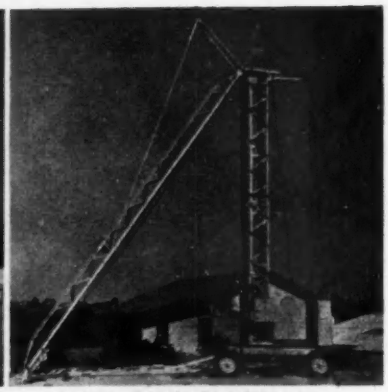


Arrival on site . . .



"Mast & Jib" unit is raised . . .



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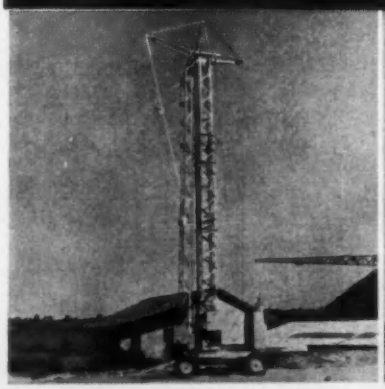
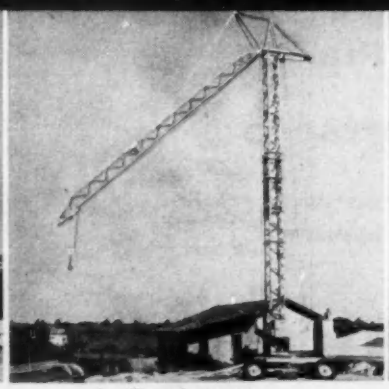
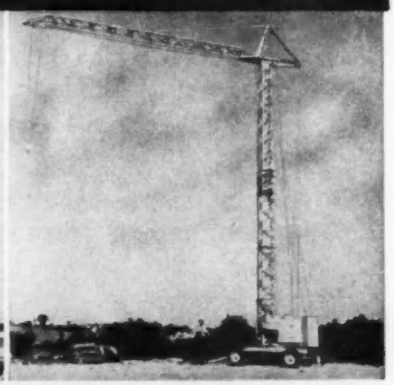


the inner mast begins to telescope . . .



the jib swings out . . .



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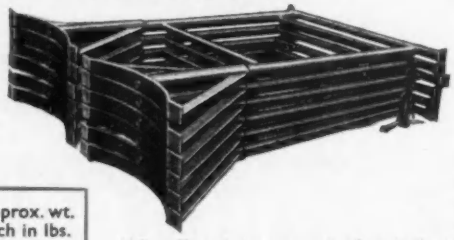
3	4 ft. 6 in. ,, ,, 6 ft. 3 in.	70
4	6 ft. 3 in. ,, ,, 8 ft. 0 in.	100



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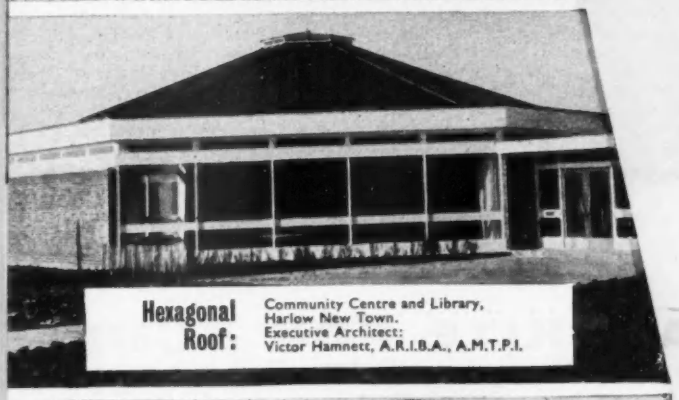
Monitor Roof: Tunbridge Wells Technical College. Architects: E. Mayorcas, F.R.I.B.A. in collaboration with E. T. Ashley Smith, F.R.I.B.A., County Architect.



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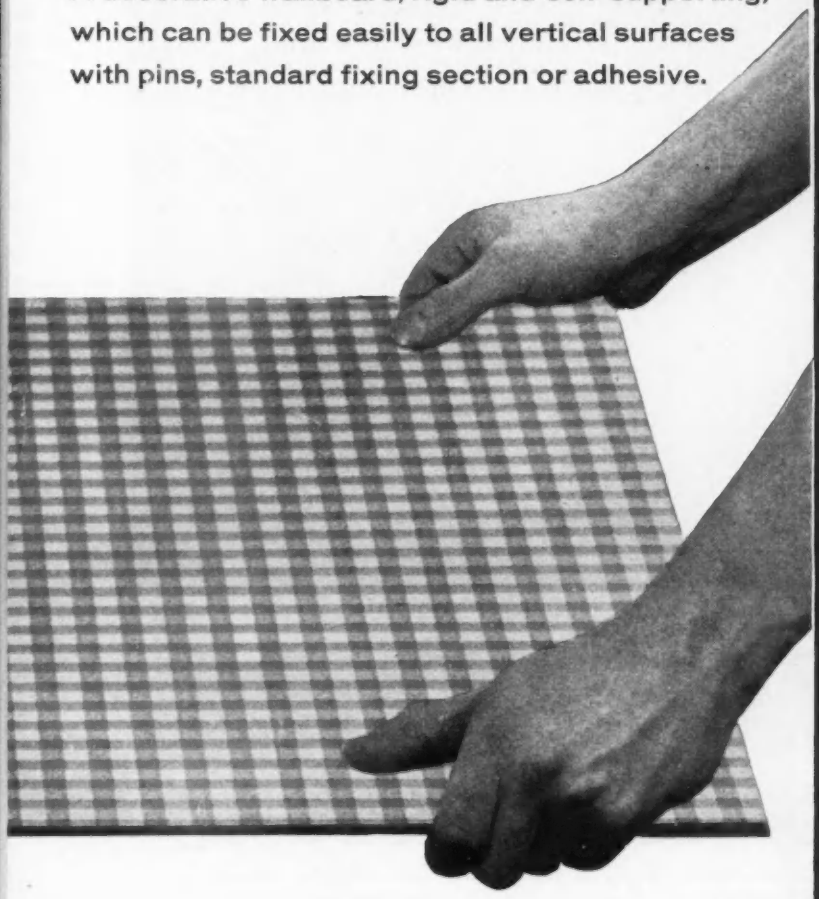

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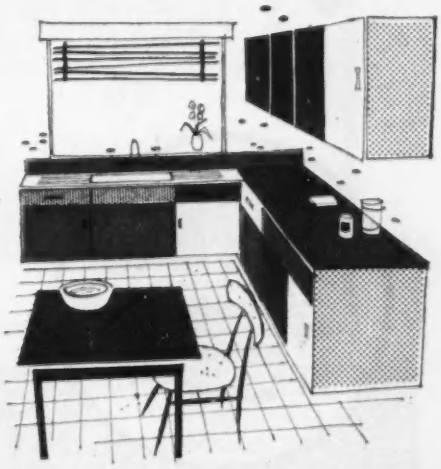

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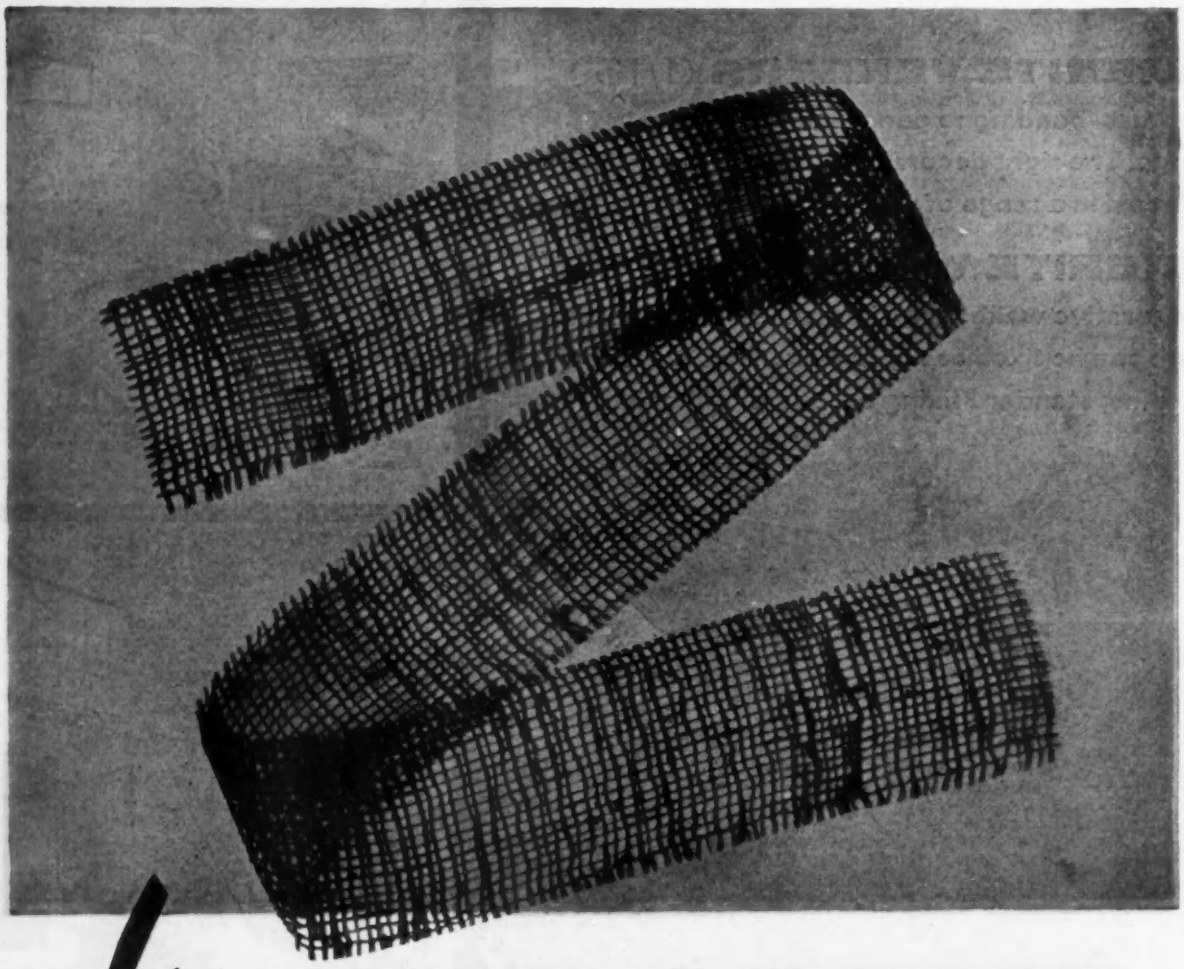

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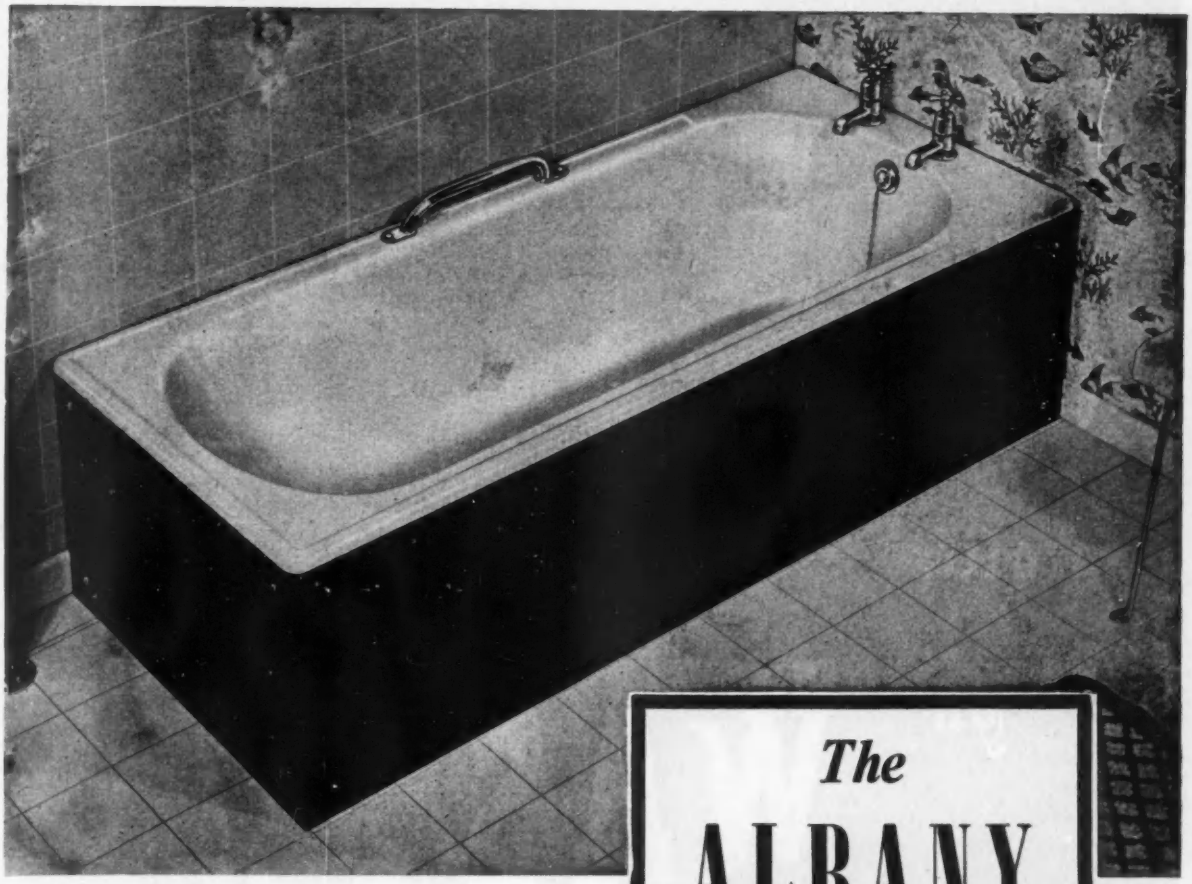

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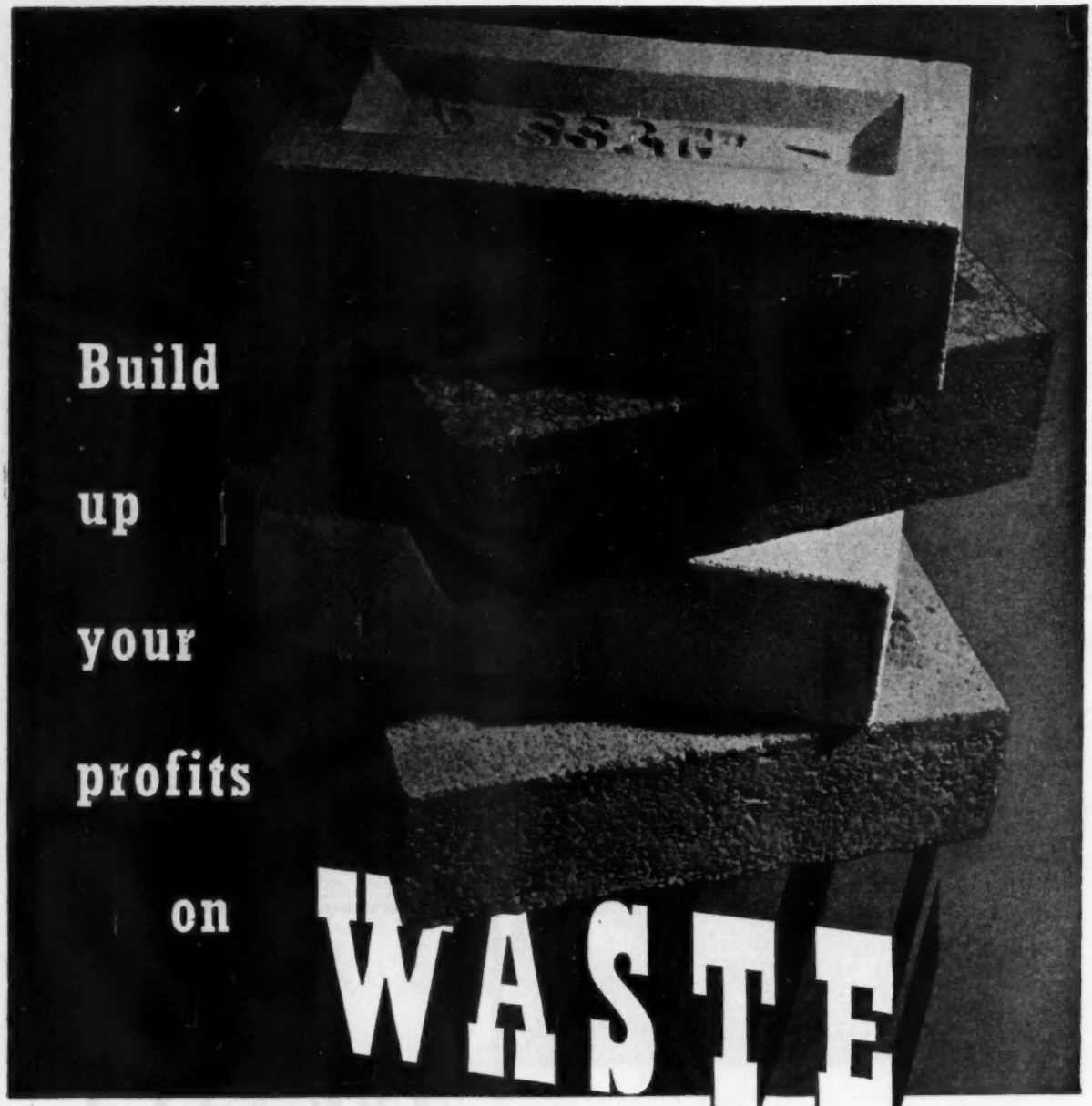

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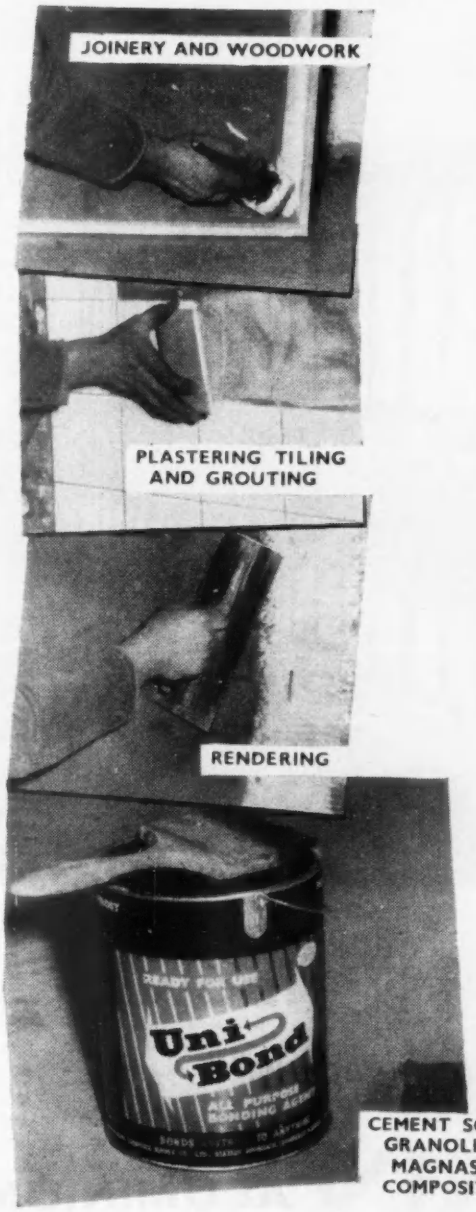

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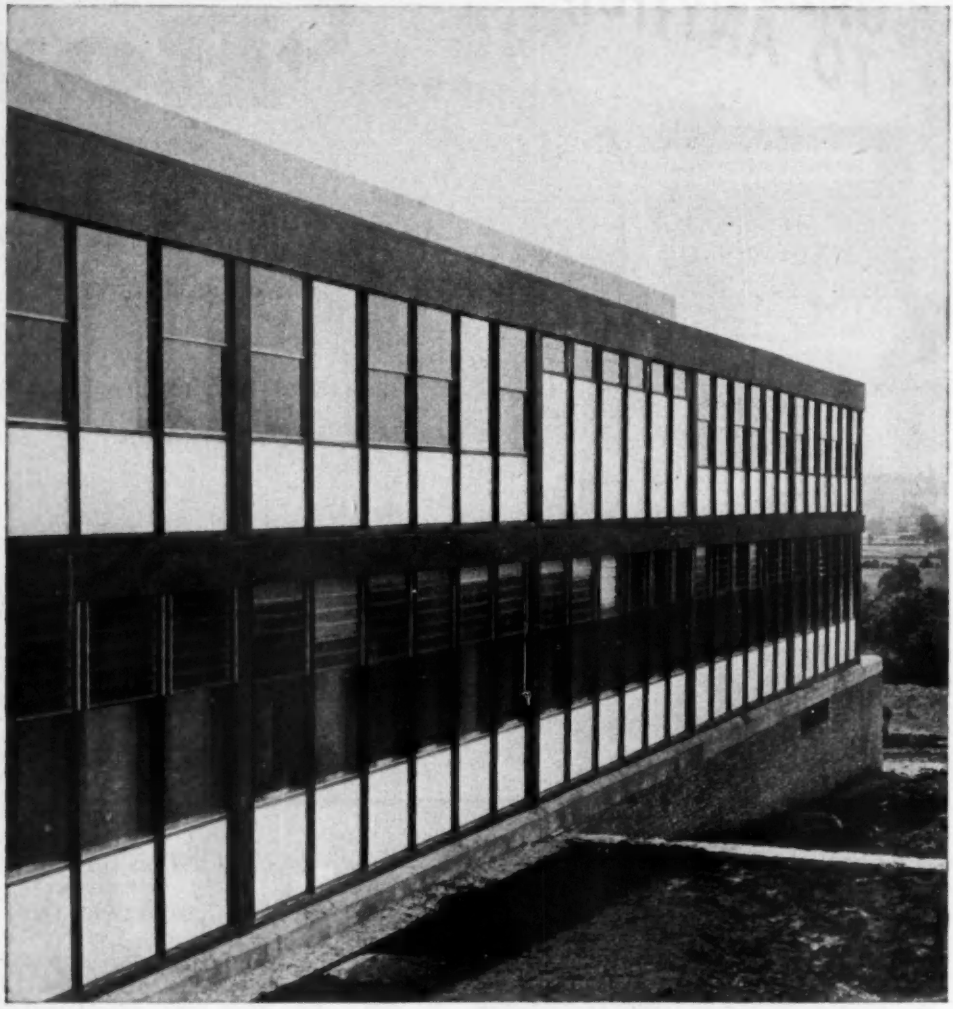

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- *No needless weight – windows that are* always *easy to open*
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To manufacturers, ALCAN specialisation means a constant, reliable source of aluminium in alloy forms exactly – *consistently* – suited to precise needs.

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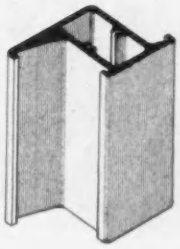
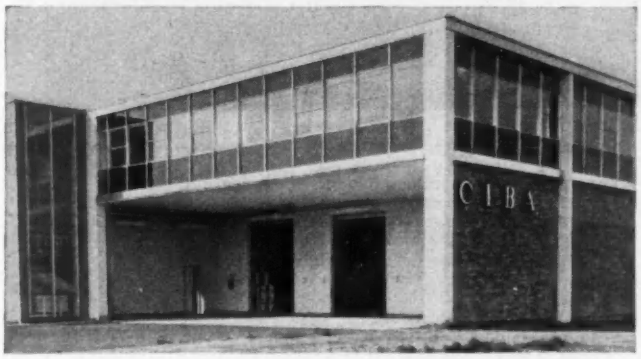
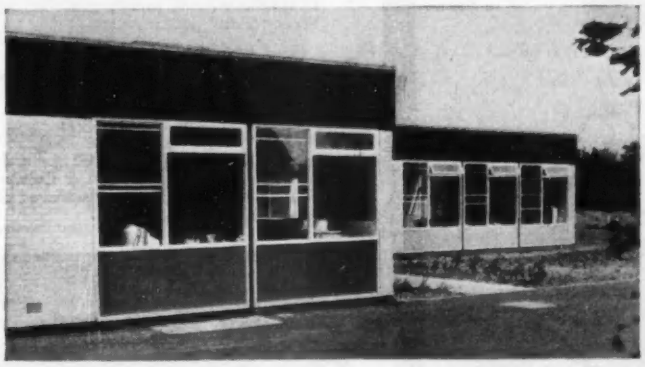


A typical example of an extrusion for aluminium windows.



"Warwick" double-hung sash windows, manufactured by ALUMIN BUILDING COMPONENTS LTD., *were specified for the new CIBA laboratory at Horsham.*
Architects: J. Douglass Mathews & Partners.



Dorney County Primary School, Eton showing "Warwick" aluminium windows fitted as inserts into softwood frames with associated fixed lights.
Architect: F. B. Pooley, F.R.I.B.A., F.R.I.C.S., A.M.P.T.I.

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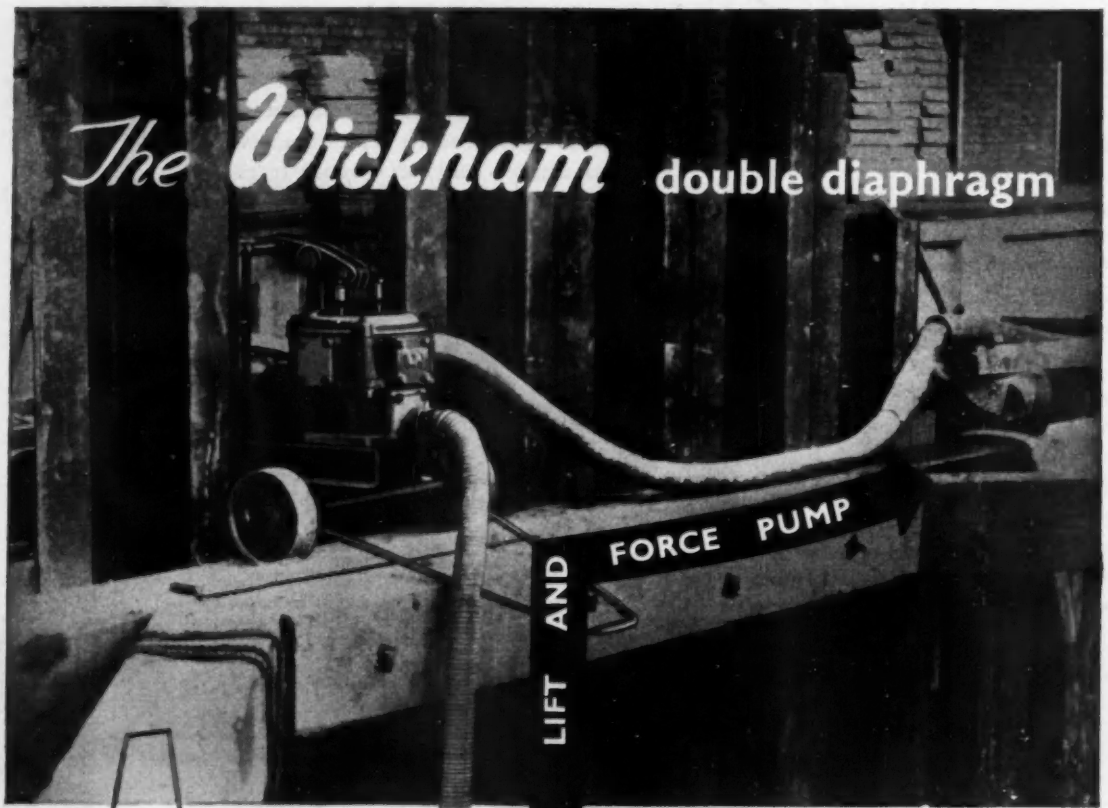

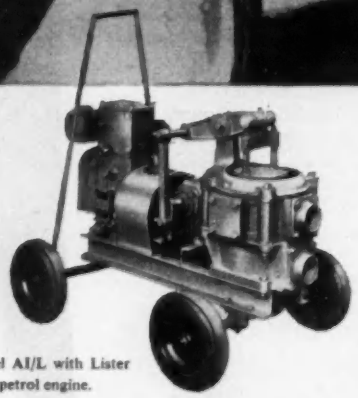

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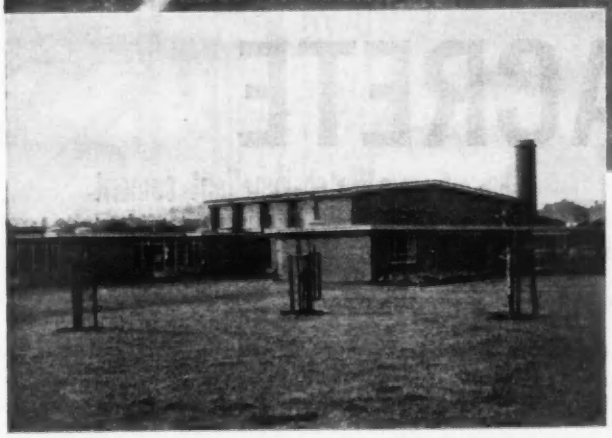

Architect: E. G. Chandler, F.R.I.B.A., M.T.P.I., Oxford City Architect.

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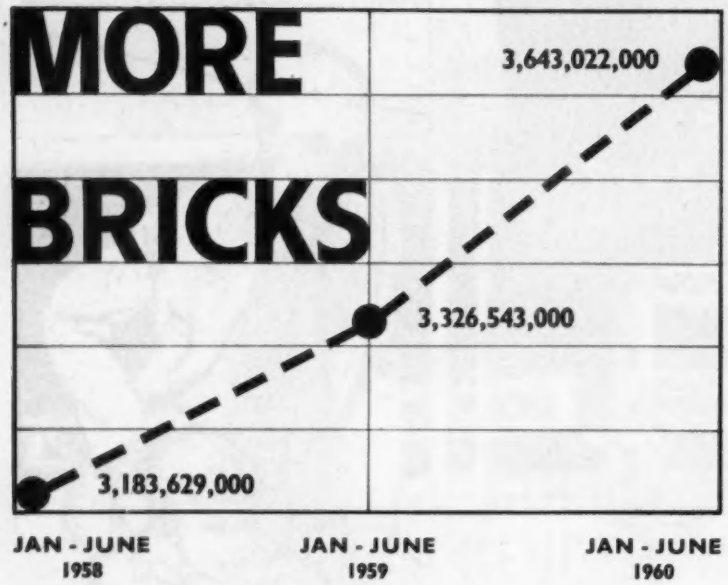

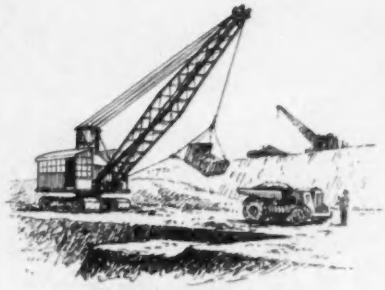

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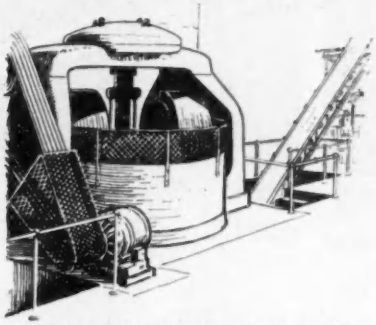

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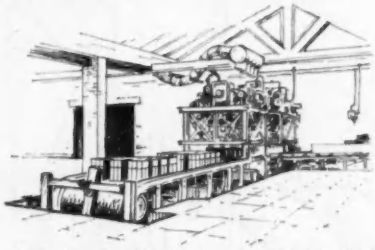

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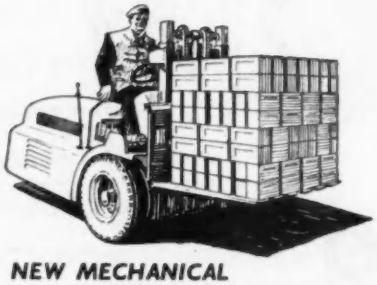

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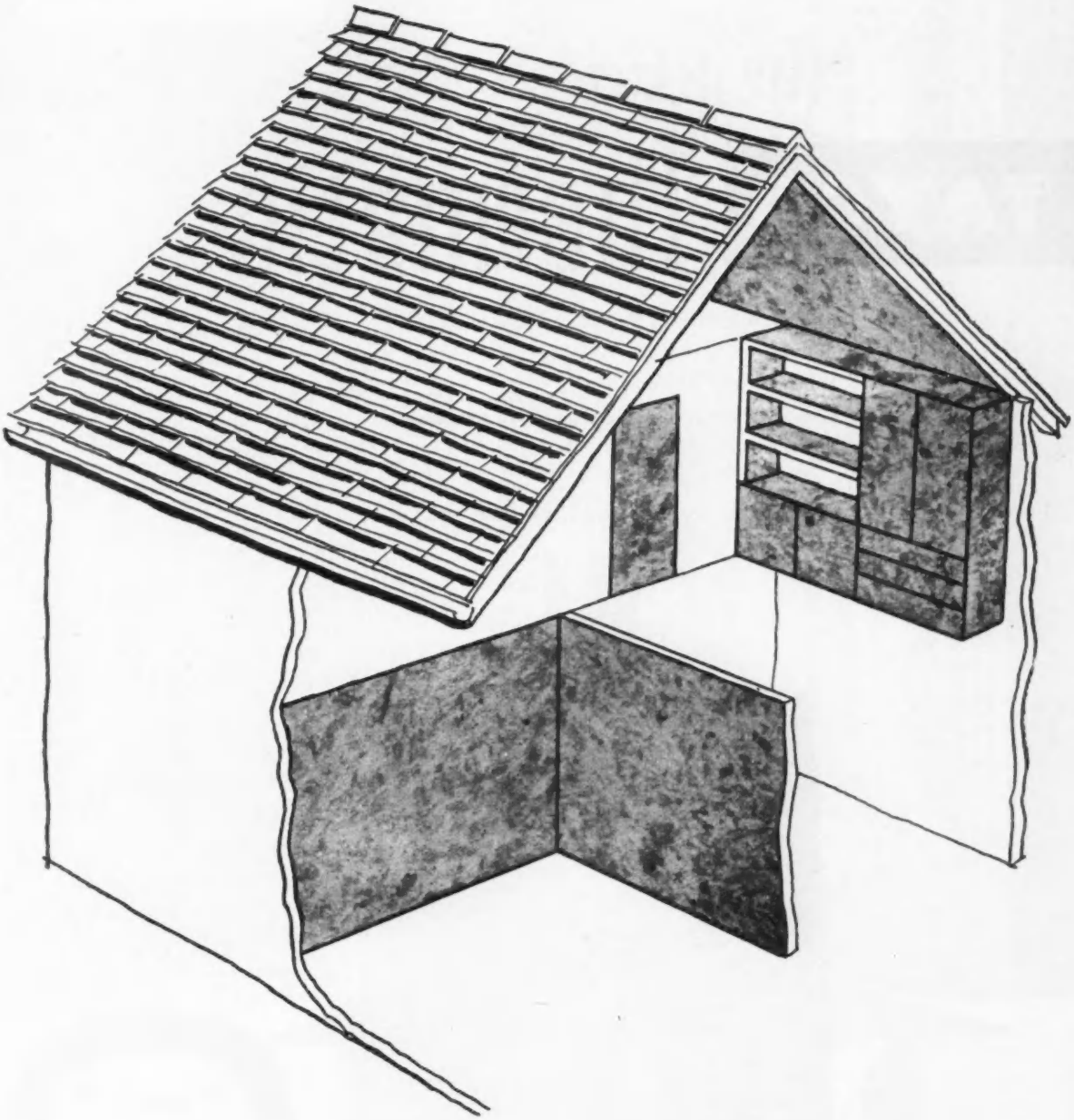

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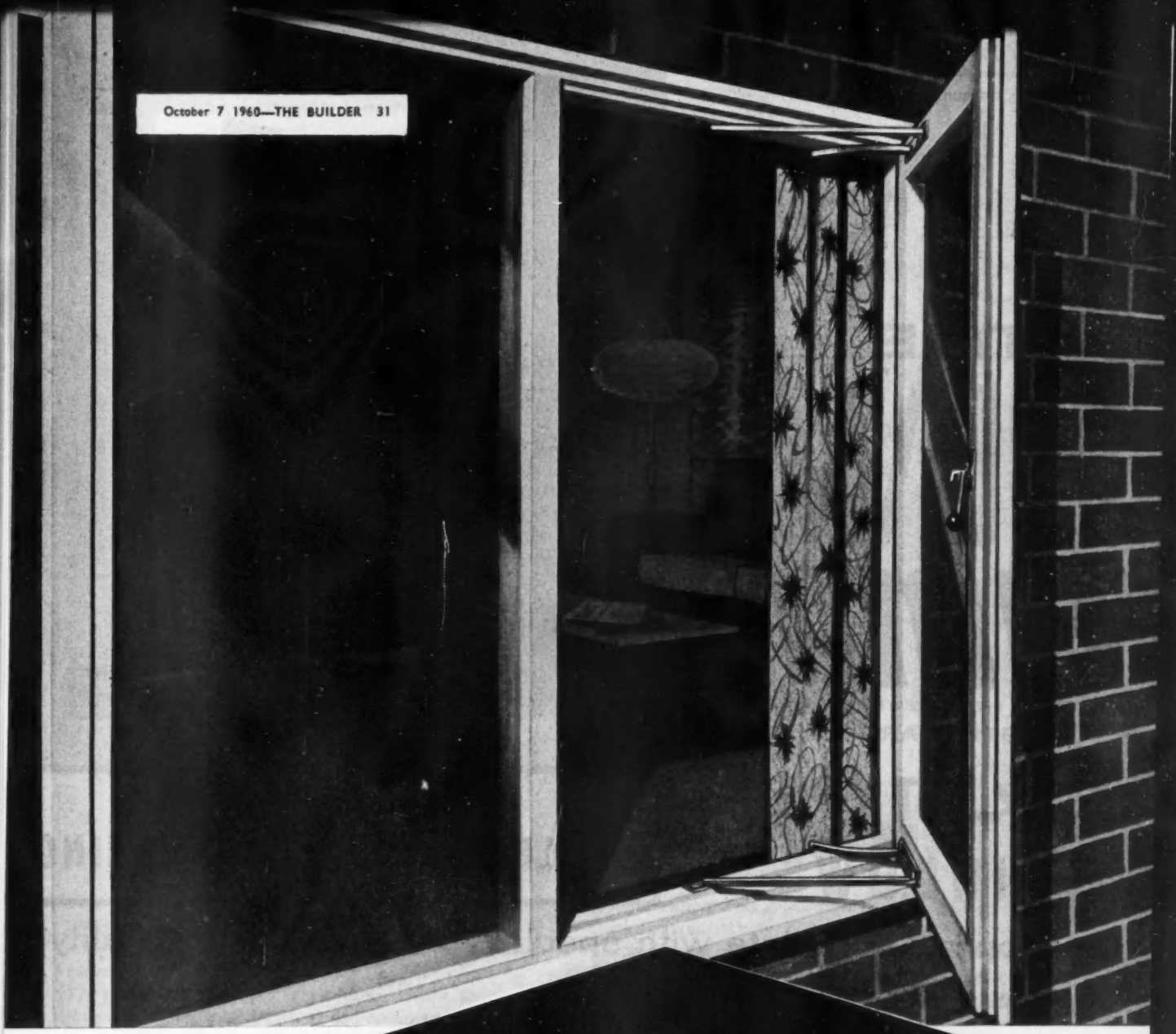

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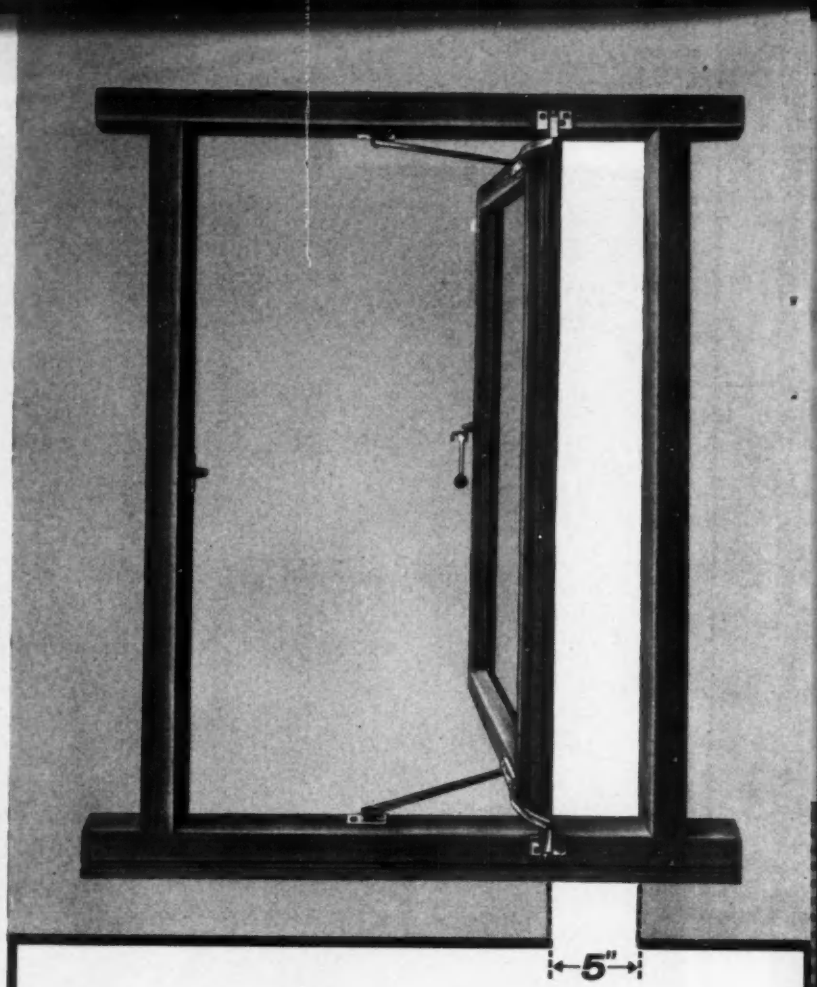

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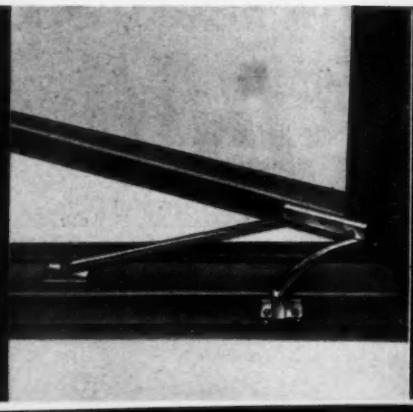

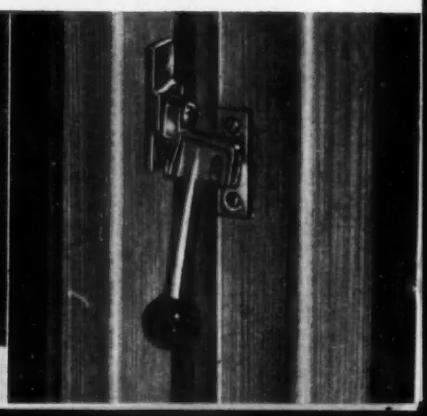

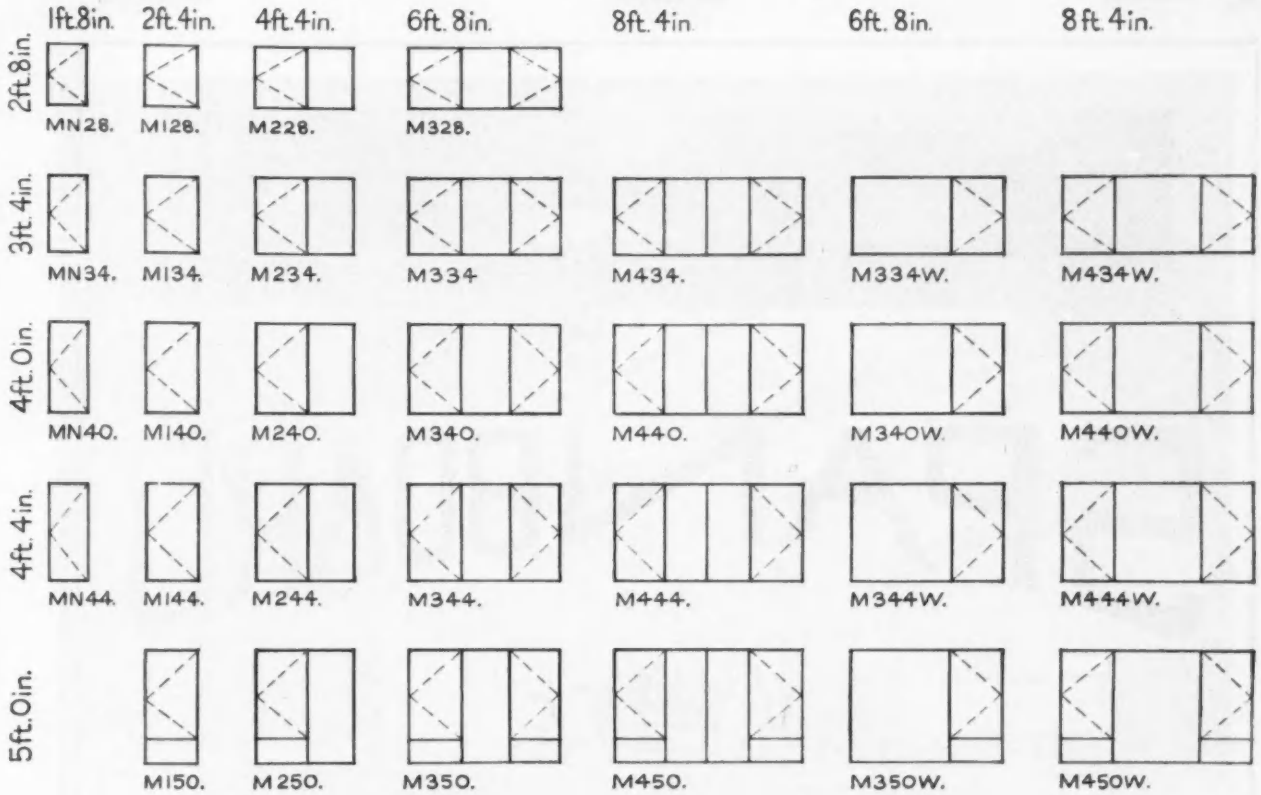

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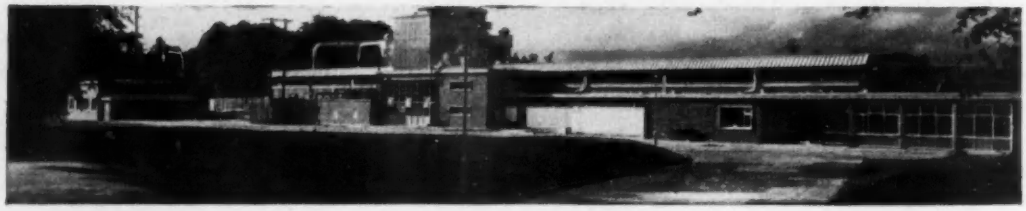

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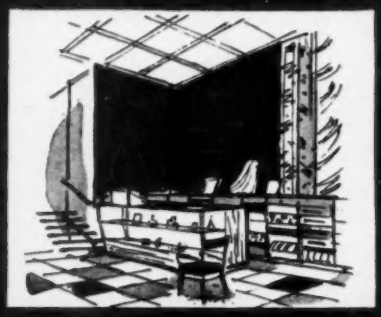

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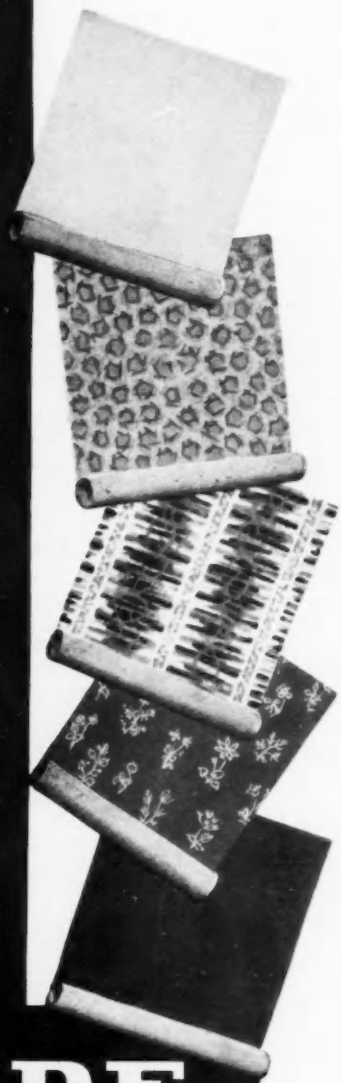

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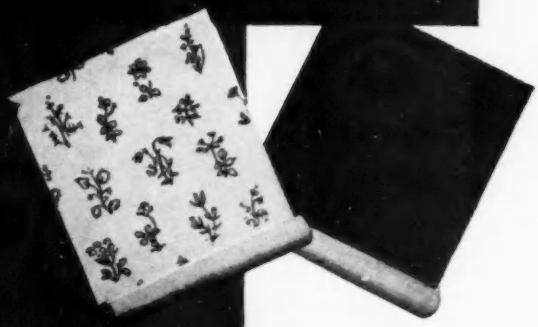

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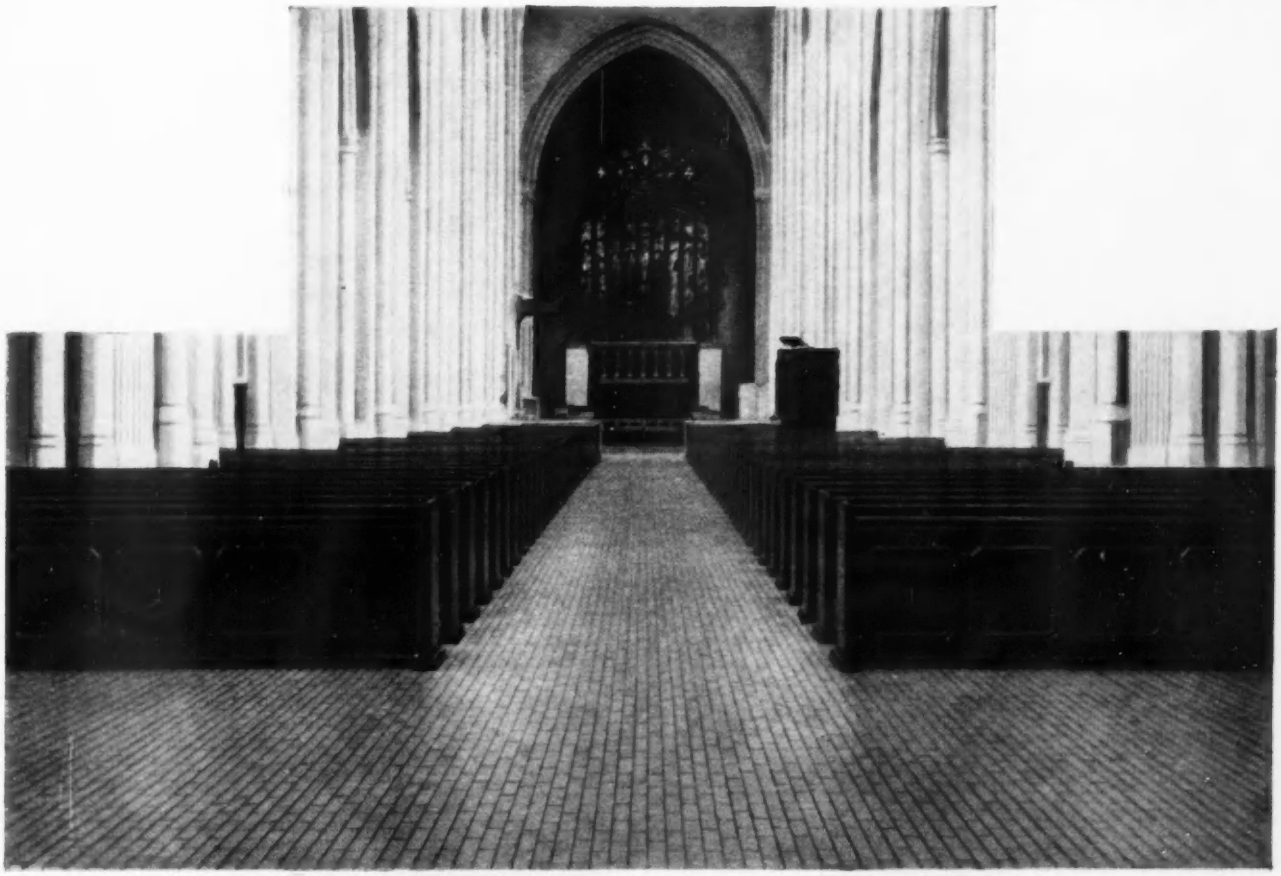

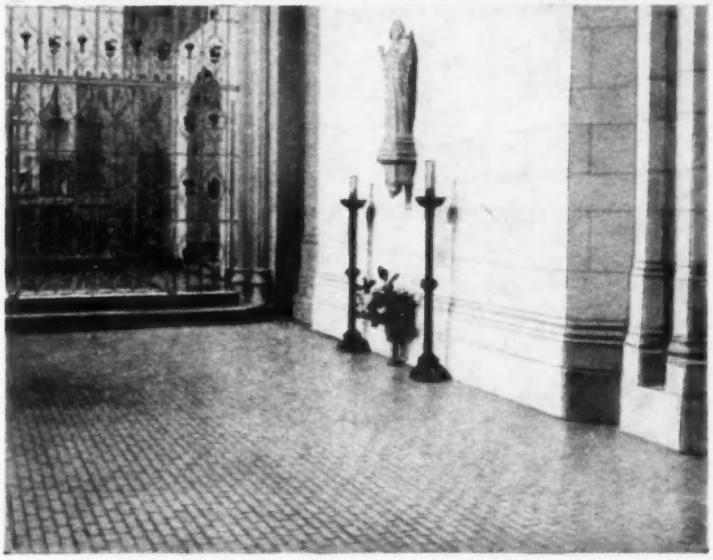

Architect
Romilly B. Craze of Milner & Craze, FF.R.I.B.A.

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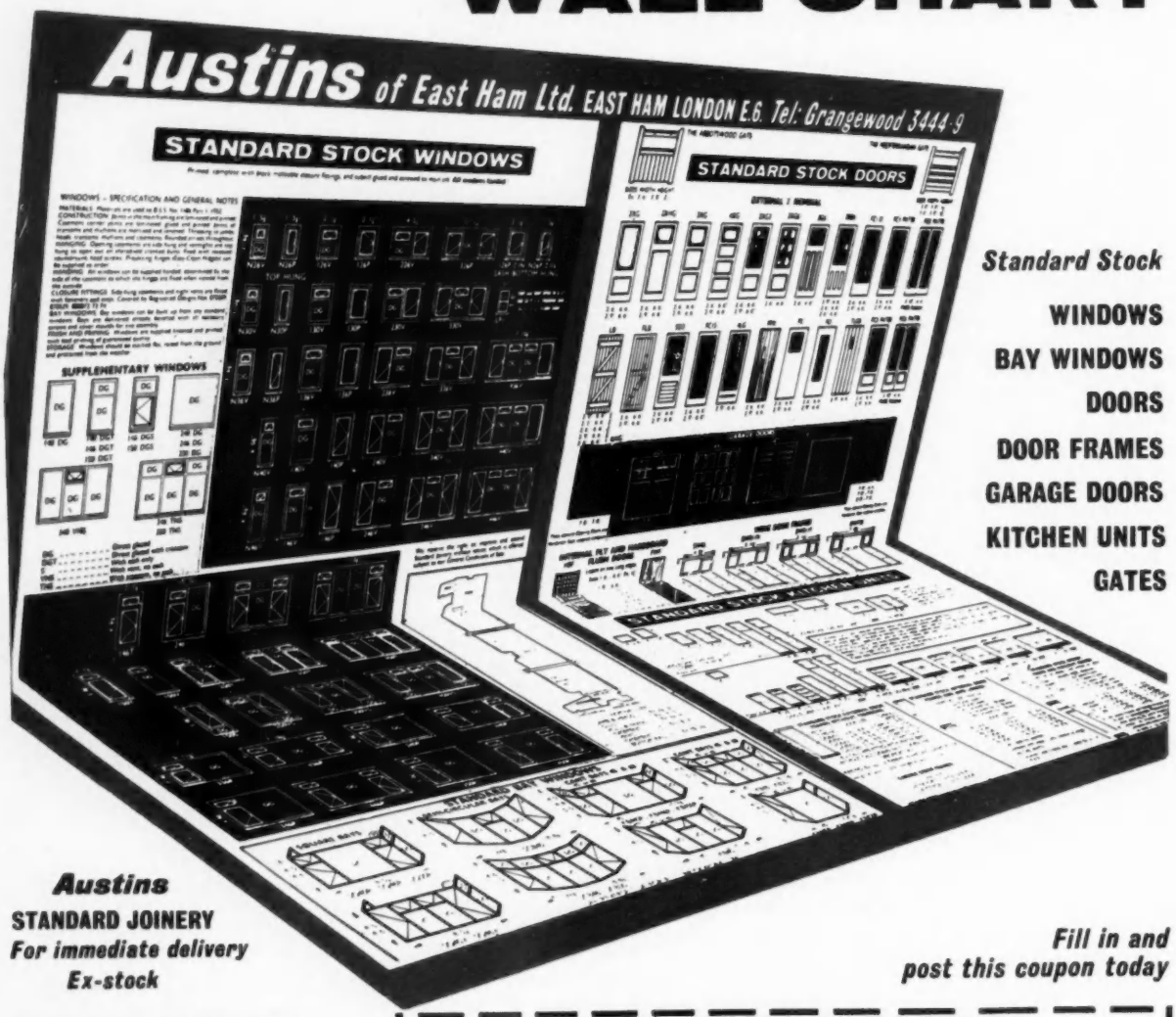

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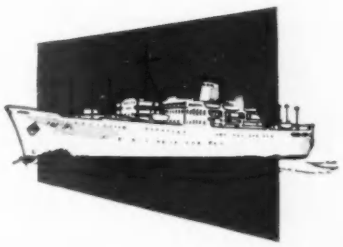

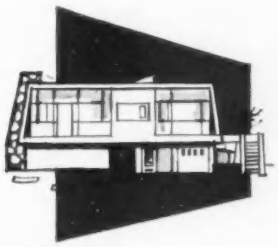

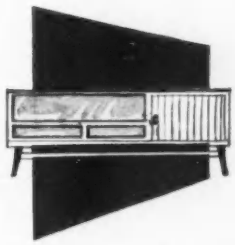

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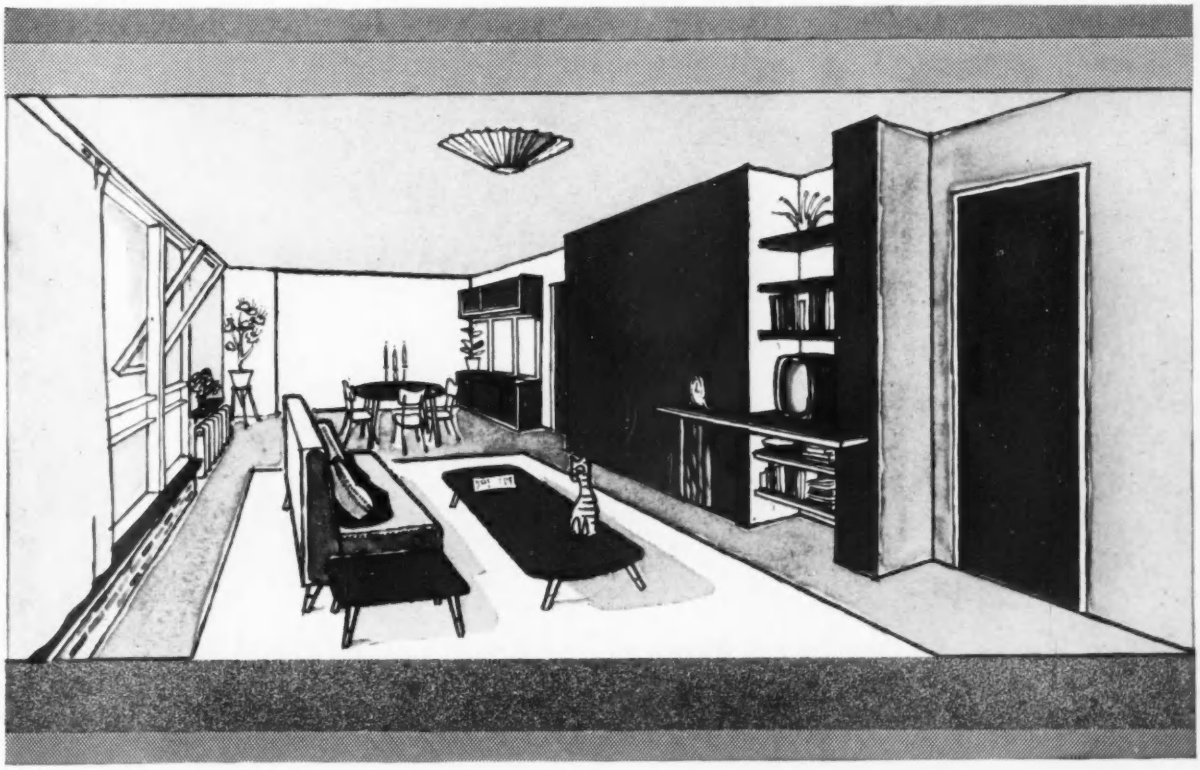

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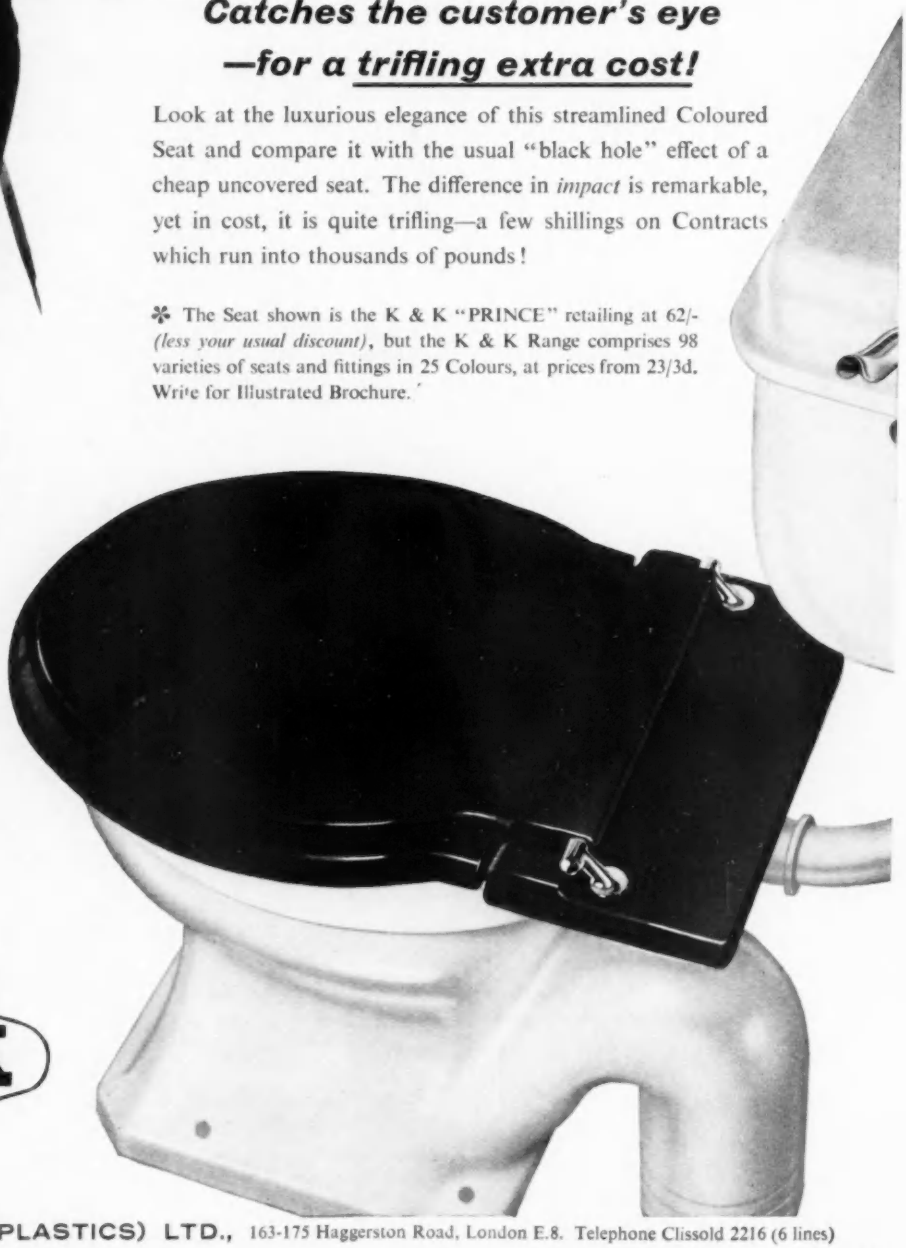

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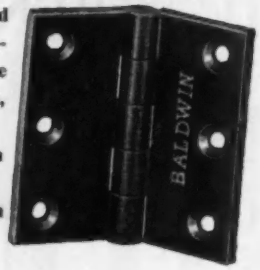

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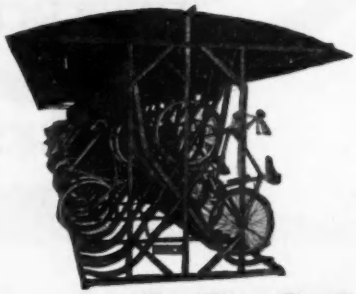

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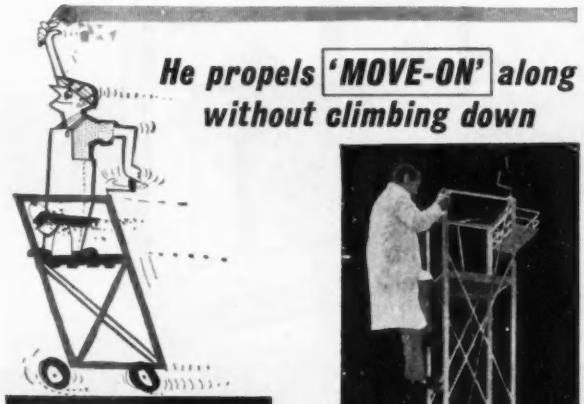

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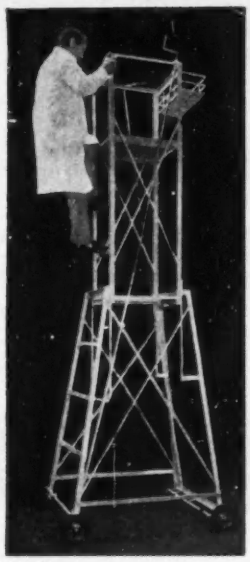

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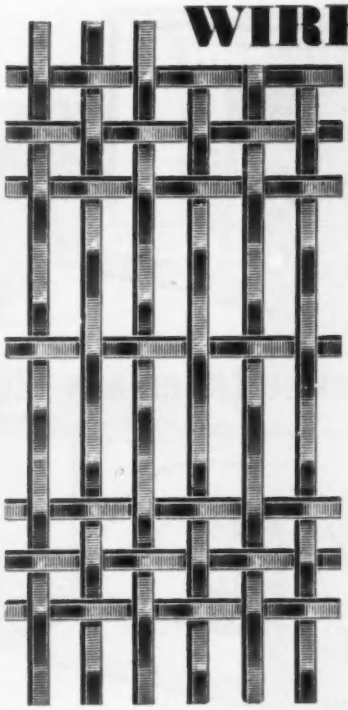

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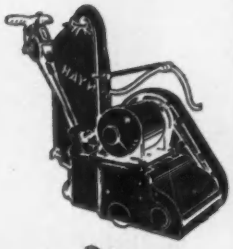

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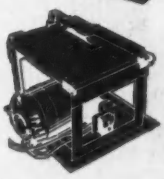

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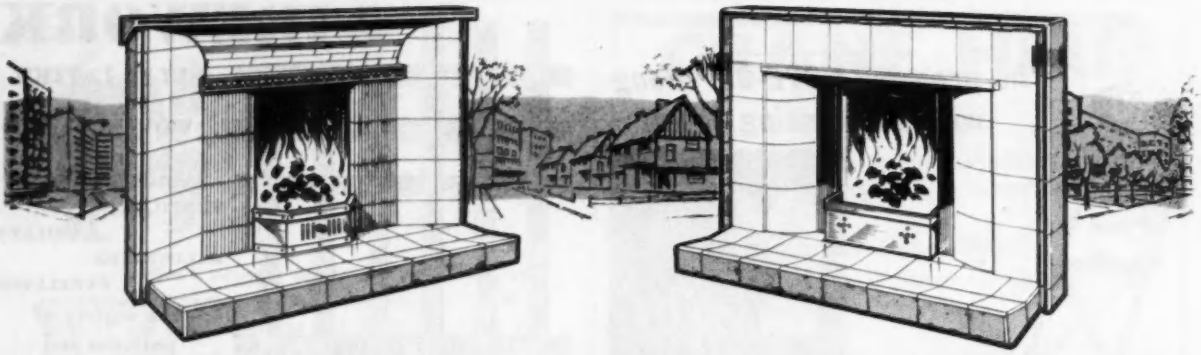

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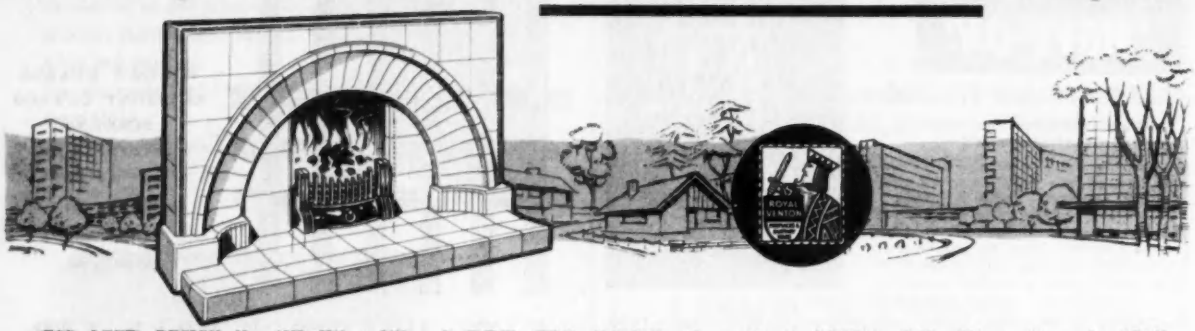

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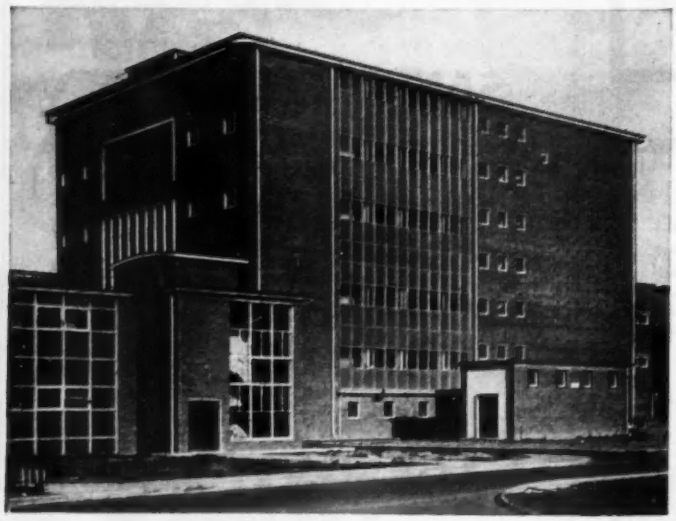

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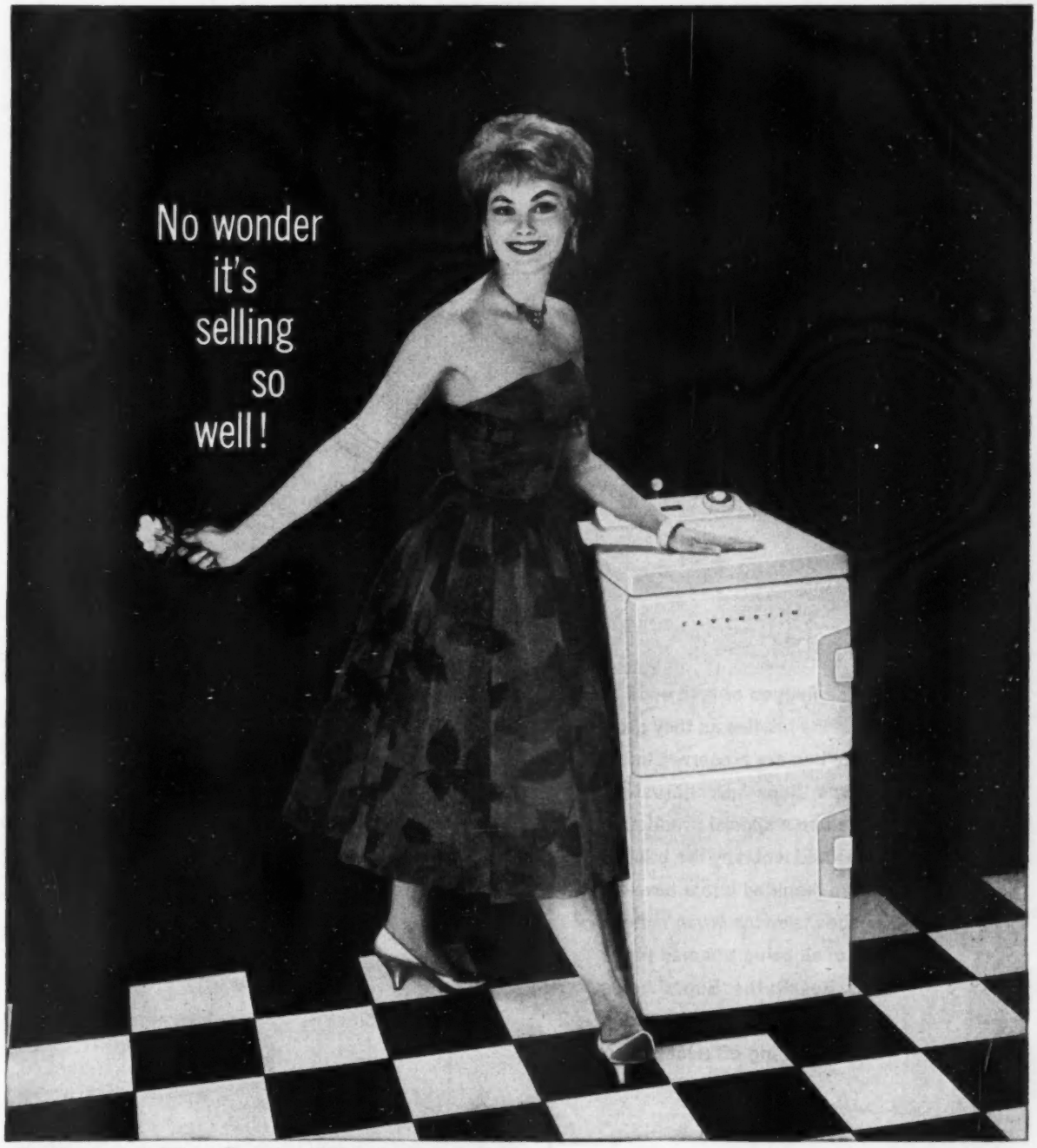

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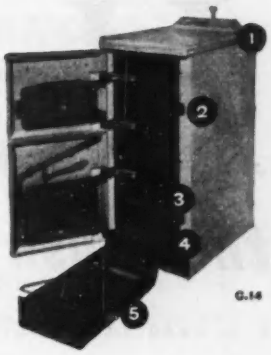
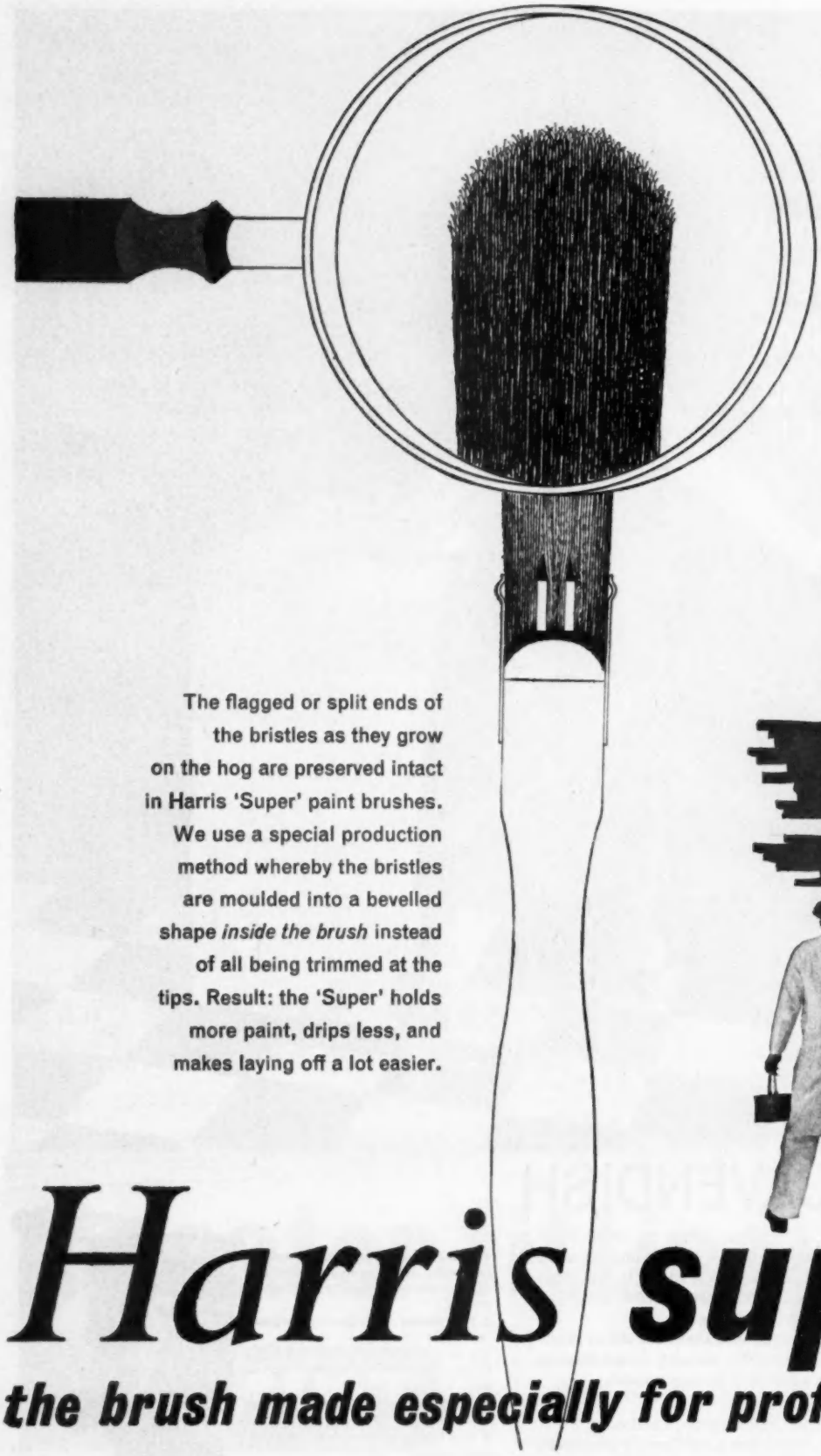
5 Less frequent emptying with this extra-large ashpan.





All these flagged ends mean easier laying off

The flagged or split ends of the bristles as they grow on the hog are preserved intact in Harris 'Super' paint brushes. We use a special production method whereby the bristles are moulded into a bevelled shape *inside the brush* instead of all being trimmed at the tips. Result: the 'Super' holds more paint, drips less, and makes laying off a lot easier.

Harris **super**

the brush made especially for professionals

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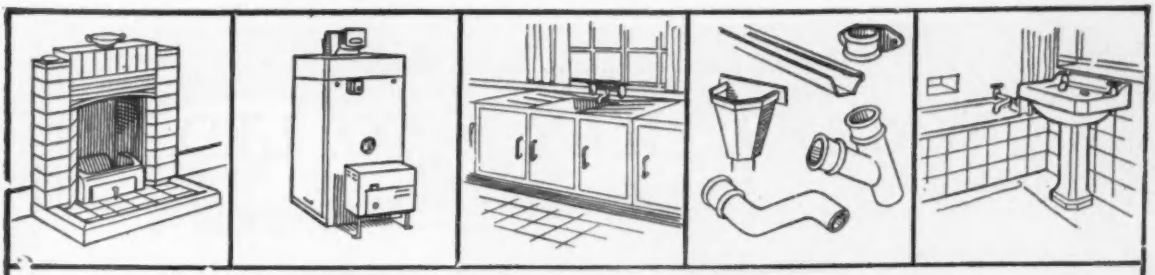

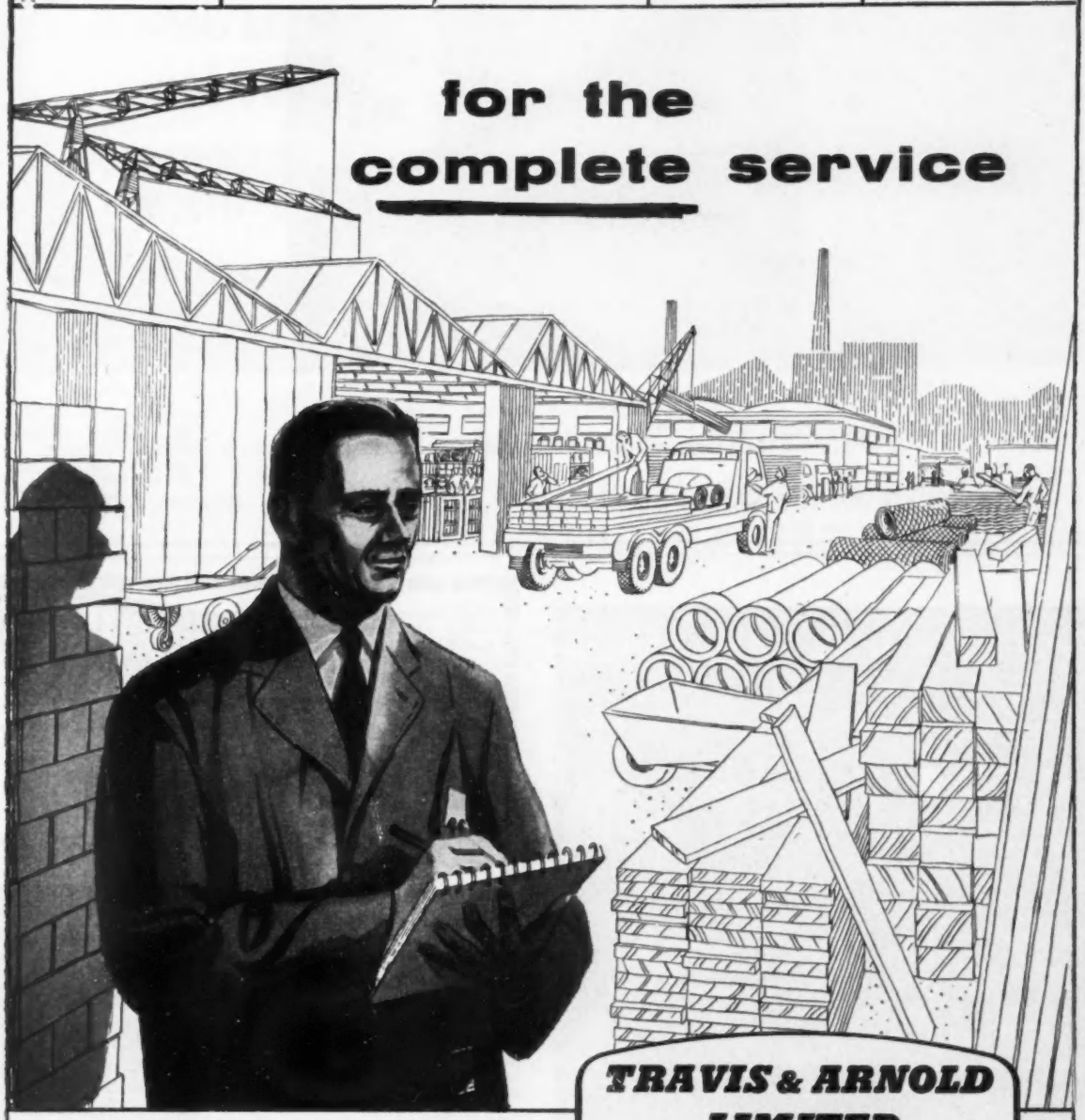

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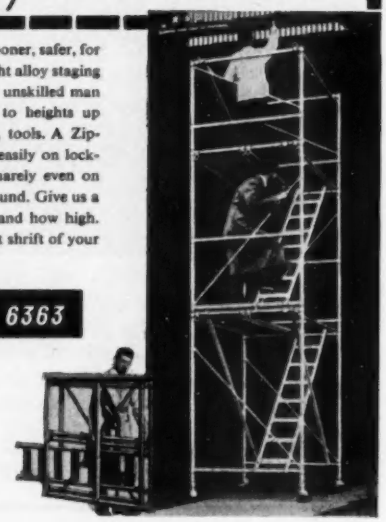

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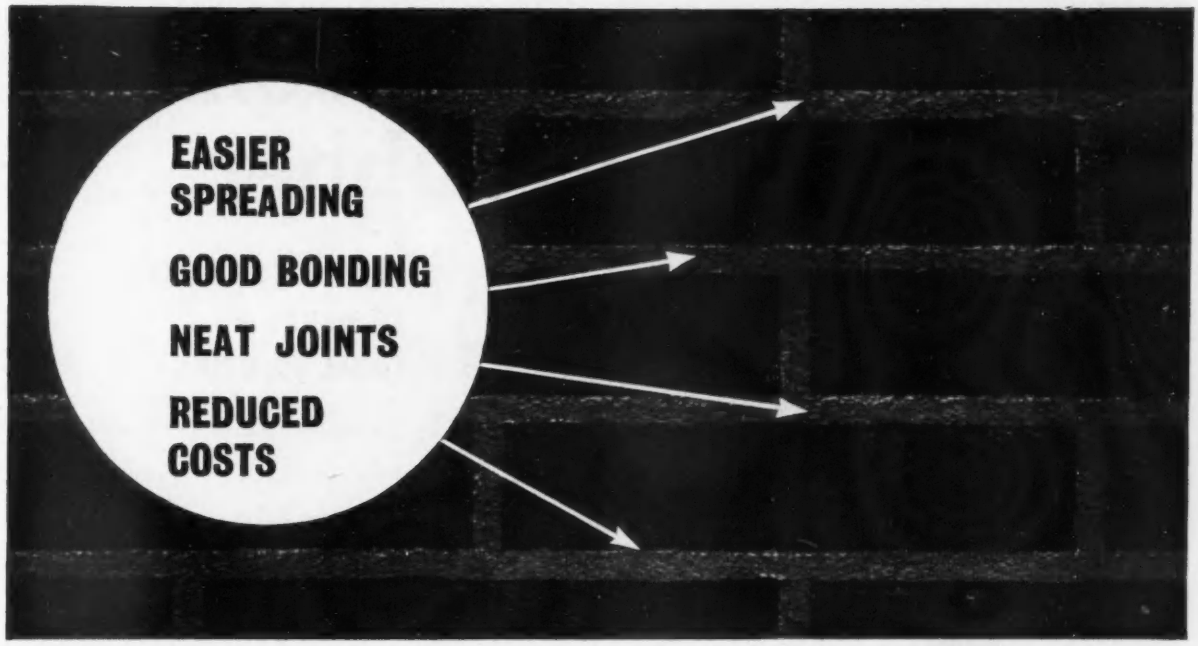

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Mortar incorporating PLAZ, spreads MORE EASILY with LESS EFFORT. Crazing is minimised—and costs are reduced through the use of coarser sands, the reduction in water cement ratio, and easier spreading.

PLAZCRETE concrete plasticiser

specially compounded to produce a concrete mix of 100% EFFICIENCY!

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The unique advantages of PLAZCRETE are VITAL to Ready-Mixed Concrete Suppliers, Contractors and Civil Engineers using Pumped Concrete.

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improves flow, compaction and impermeability of concrete; increases resistance to sulphate and frost attack; enhances riding qualities of concrete roads, etc.

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TO PREVENT OR CURE DAMP WALLS

Synthaprufe makes a highly efficient vertical damp course both inside and out, and is an excellent treatment when damp is already present.

TO WATERPROOF CONCRETE SUB-FLOORS

Synthaprufe is the ideal sandwich layer in concrete sub-floors. It is also the ideal fixative for linoleum and wood-blocks.

ELASTIC, ADHESIVE, IT MAKES AN IDEAL JOINTING

SYNTHAPRUFE is an all-purpose waterproofing compound applied cold by brushing. Its rubber content makes it strongly adhesive, and it sets quickly to form a strong, elastic, moisture-proof film.

Almost any surface, whether it be wood, brick, metal, concrete or plastic, will take Synthaprufe. It is an excellent key for plaster on difficult surfaces such as painted and glazed bricks. The use of Synthaprufe obviates the noise and expense of hacking.

When used as a sandwich in concrete sub-floors Synthaprufe acts as a horizontal damp course, effectively preventing moisture penetration.

Synthaprufe, a by-product of British coal, is obtainable in drums and cans.

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"Synthaprufe" is a Registered Trade Mark

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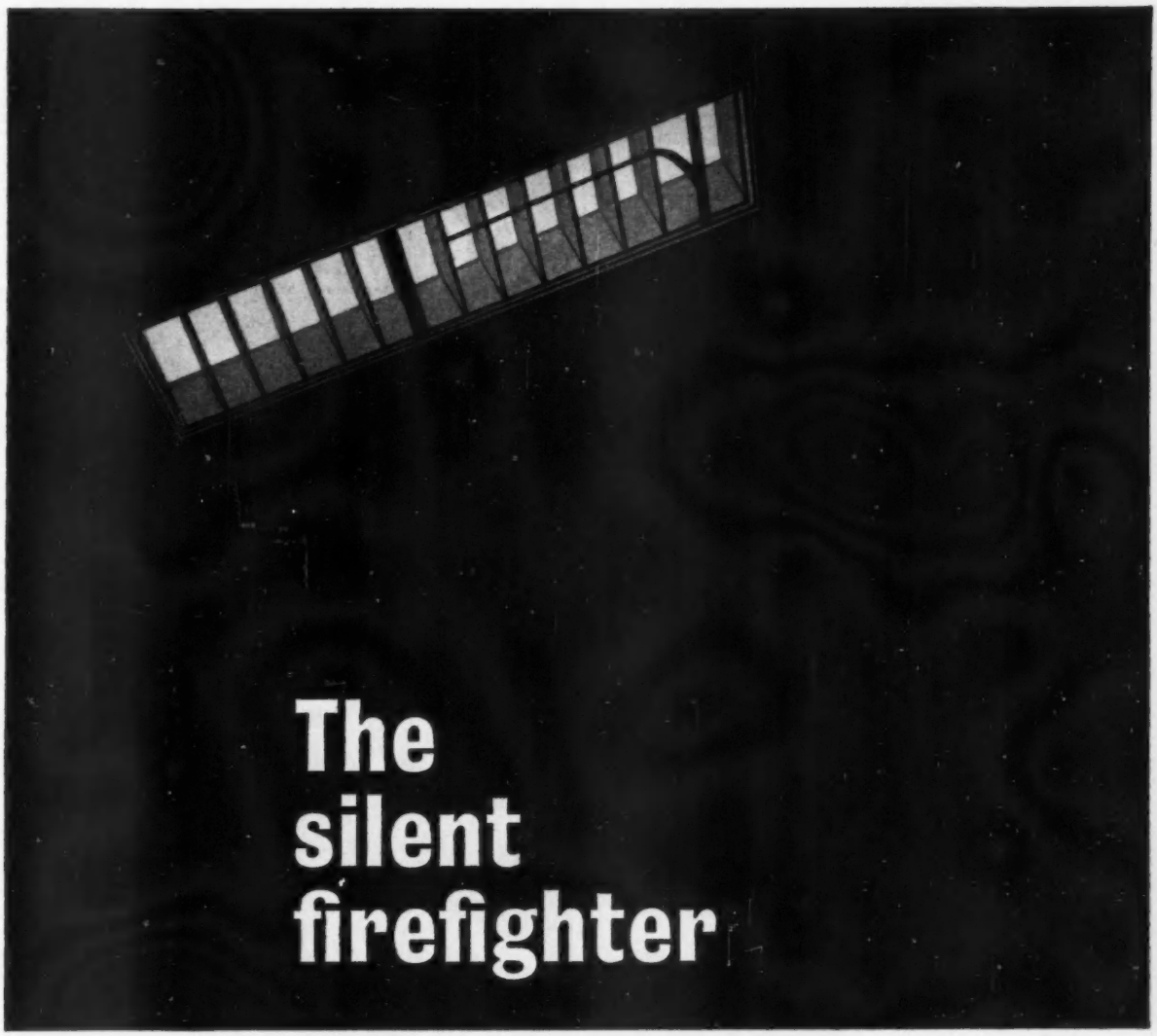

This fire ventilator saved a plant worth £3,500,000

It could well save yours

As any fire chief will tell you, fire in an unventilated area quickly produces choking, superheated smoke and fumes—conditions which keep firefighters out of the building and make effective firefighting virtually impossible. Perforation of the roof is the only remedy, but this is a hazardous operation which often endangers the life of the fireman.

The Colt Dual Purpose Ventilator has a special device that's acutely sensitive to heat. It opens *automatically* at a pre-determined temperature, releasing smoke, heat and fumes, keeping the fire localised. Firemen can enter the building, find the seat of the fire and extinguish it—with minimum damage to plant and equipment.

Colt dual-purpose ventilators have the added advantage that under manual control they can be used for normal plant ventilation and provide excellent day-to-day working conditions.

Widespread adoption by industry is proof of managerial faith in the silent firefighter.

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Dual-Purpose Ventilators

Automatic Fire protection — day-to-day controlled ventilation

FOR INFORMATION WRITE TO DEPT. 89: COLT VENTILATION LIMITED, SURBITON, SURREY. ELMBRIDGE 0161

255

EXPERT OPINIONS ON

WHAT MATTERS MOST ABOUT PAINT

During the first half of 1960 we spoke to 255 individuals who are closely concerned with Paint. Concerned, that is, professionally or managerially or as craftsmen. We asked them what points about Paint they considered the most important. We put no leading questions: our informants did their own thinking . . . and though the order in which they put their points varied we found that the same six points were made over and over again.

We list these six points below—not in any particular order of importance, because some of them overlap and it was hard to say where one point ended and another began . . . but do you agree, Sir, that these points are, indeed, "What matters most about paint"?

May we ask you to add in the blank space we have left any point which you think matters just as much and ought to have a number in its own right.

1. **COVERING POWER**—for both normal and unusual circumstances, interior and exterior, with prescribed use of Sealers, Primers, etc.
2. **EASE OF APPLICATION**—affording the craftsman a real chance to demonstrate his skill.
3. **MINIMUM COST**—per yard in relation to the quality specified and the final appearance of the work.
4. **TECHNICAL ADVICE**—from the Manufacturer on the site whenever circumstances call for special 'know-how'.
5. **DELIVERY**—rapid, constant and reliable.
6. **CUSTOMER SATISFACTION**—so that the work pleases, not only on completion but throughout its whole life.
7. What would be your point, Sir, to add to this list? . . . we shall be happy to hear from you at Charlton.

.....

.....

.....

This enquiry is part of our constant effort to pioneer new developments and to take advantage of the new products and processes in our manufacturing. We want, nevertheless, to be certain that whilst we look clearly ahead to the future we do not lose sight of the basic needs of our customers—be they Architects, Builders, Painters or Property Owners.

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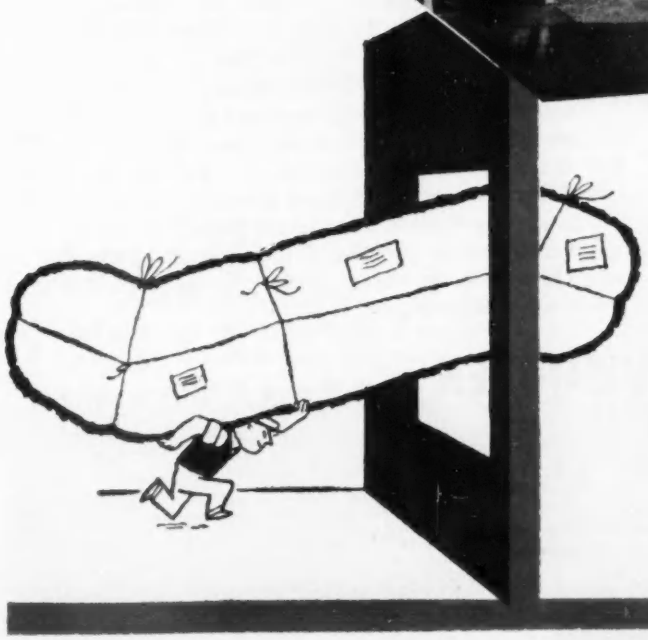
PACKAGED escalators

from J. & E. Hall



The only British-built packaged escalator, constructed by the largest manufacturers of escalators for stores, commercial and public buildings, and backed by 30 years' experience.

Passes through 10 ft. opening, cuts actual installation time to approximately 3 days, and ensures the minimum of interruption to normal business arrangements.

J. & E. Hall's escalator engineers are at all times at your service to discuss all aspects of escalator planning, installation and operation.

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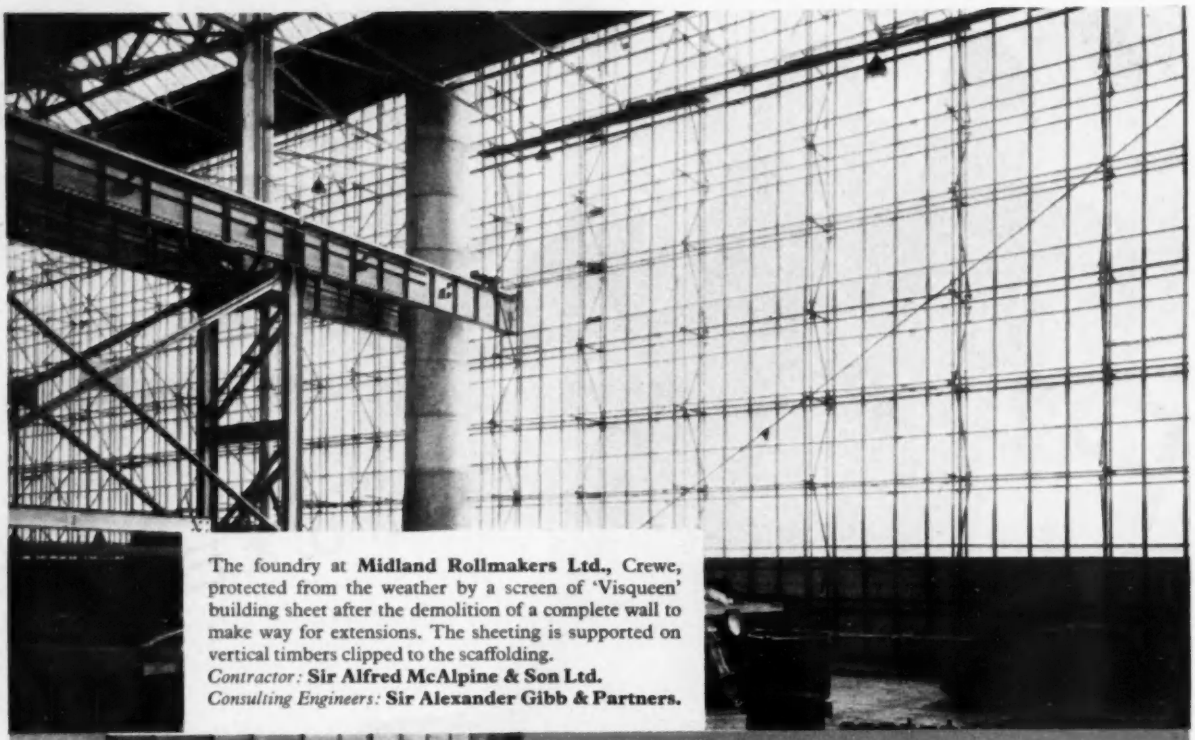
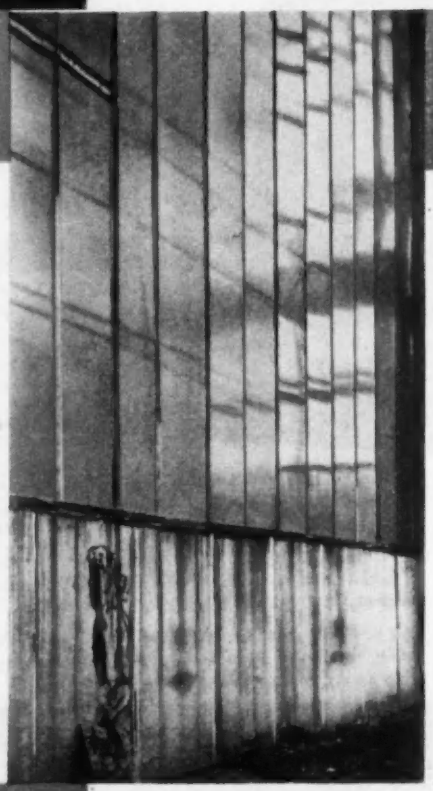


The foundry at **Midland Rollmakers Ltd.**, Crewe, protected from the weather by a screen of 'Visqueen' building sheet after the demolition of a complete wall to make way for extensions. The sheeting is supported on vertical timbers clipped to the scaffolding.
Contractor: **Sir Alfred McAlpine & Son Ltd.**
Consulting Engineers: **Sir Alexander Gibb & Partners.**

'Visqueen' clips £1,000 from weather screen cost on foundry extension



DURING MAJOR ALTERATIONS to this factory one entire wall of the engineering shop had to be demolished, and extensions completed without interruption to normal production.

The consulting engineers decided to erect a weatherproof screen over 300 feet long and 56 feet high. Originally it had been planned to construct the screen with boarding or corrugated sheeting. But by choosing 'Visqueen' building sheet they saved more than £1,000 in labour and material costs – and made the screen transparent into the bargain.

'Visqueen' is not only tough, waterproof and transparent. It is also light to handle, easy to fix and cheap. Because of the size of this screen, the contractors used 'Visqueen' 1000 (double heavy weight) for additional protection. The lighter 500 (heavy weight) grade, however, can generally be recommended for weather screening. The price of this grade is only 1½d a sq. ft. and enough to clad a screen of this size would cost a little over £100.

VISQUEEN polythene building sheet

The outside of the screen showing how the 'Visqueen' was secured by nailing through laths into the timber battens behind. As an added precaution, overlaps in the 'Visqueen' were sealed with bituminous adhesive, and the base of the screen was protected with 8′ high plimber board.

For the name of your nearest stockist, samples prices and an illustrated brochure describing the many applications of 'Visqueen', write now to:
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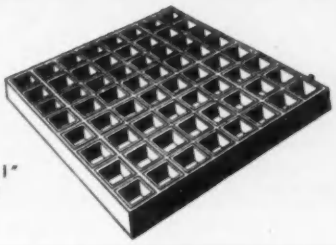
The ever-increasing use of all types of Fork Lift Trucks in Industry calls for a heavy duty flooring with a surface which cannot be obtained with Portland Cement based flooring. Our various types of Cast Iron Plates have been specially designed to withstand modern Trucking and our Foundry is entirely devoted to the production of these special types of Flooring, enabling us to quote very competitively.

CAST IRON GRID PAVING

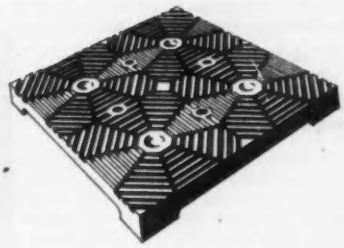
The grids are laid on a concrete base, the openings afterwards being filled with a specially hardened compound. These grids can also be pre-filled with this compound (coloured if required). To be considered for replacements where time is a limiting factor.



12" × 12" × 1"
12 lbs. weight

SERRATED CAST IRON PAVING

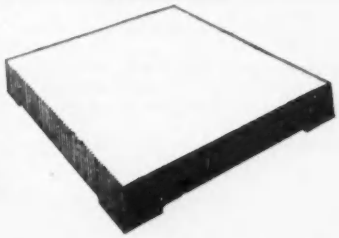
Designed with a slip-resistant surface in all directions and provides a floor finish where maintenance is reduced to an absolute minimum.



12" × 12" × 1"
14 lbs. weight

PLAIN TOP CAST IRON PAVING

These plates are suitable for use where a heavy duty paving is required and where contact is made with chemicals which attack ordinary Portland Cement based paving.



12" × 12" × 1⅛"
16½ lbs. weight

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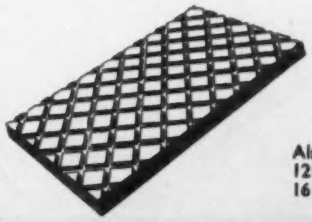
In cast iron plates of a heavy duty type suitable for floors where contact is made with chemicals which attack Portland Cement. The advantage with these plates is that only an inch is required for plate and bedding.



12" × 6" × ⅞"
7 lbs. weight

Also in
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16 lbs. weight

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(INDUSTRIAL) LIMITED
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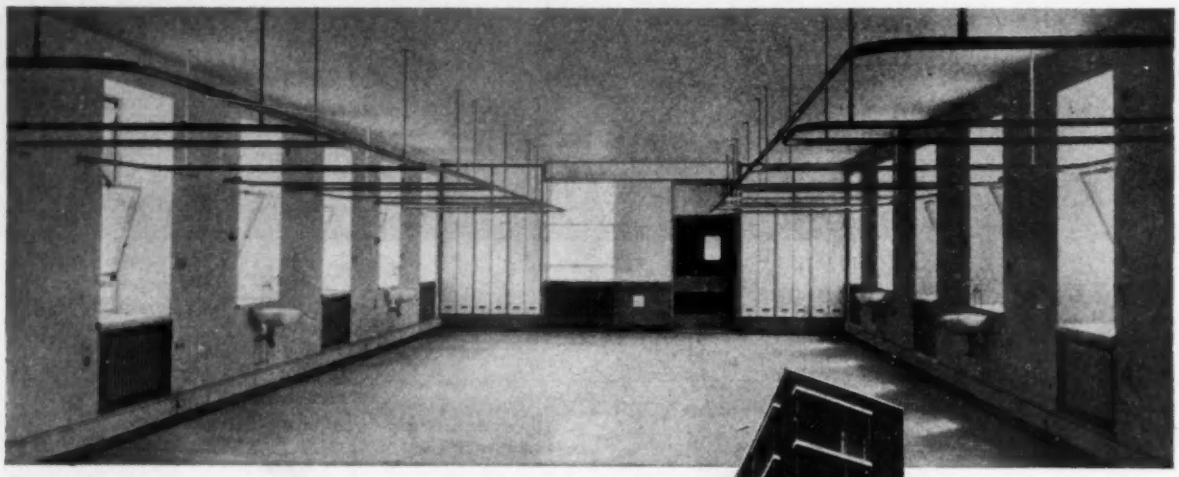
1,000 Ideal radiators go into new surgical block at Guy's Hospital



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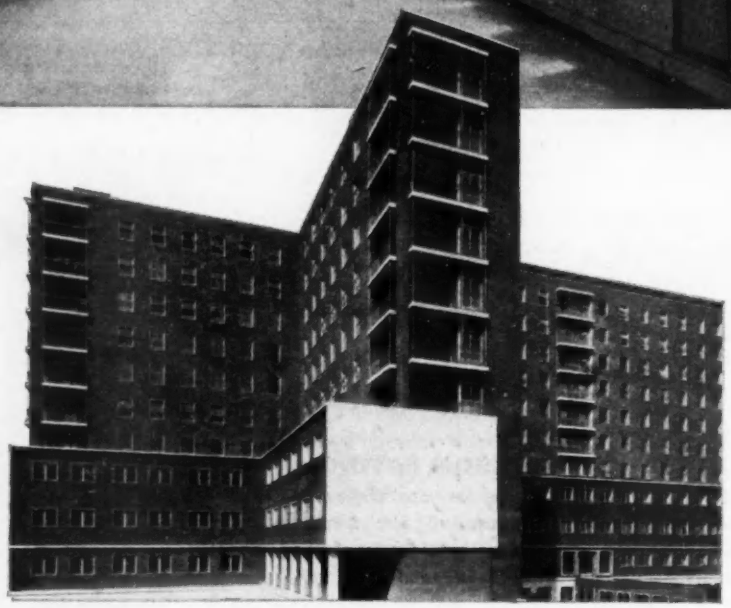

The large new surgical block at Guy's Hospital, London, incorporates the most advanced and trustworthy equipment in the widely varying fields of medicine and building. It is natural, therefore, that IDEAL Neo-Hospital Radiators were chosen to give the dependable heating service required in a hospital of this kind. Where there are a thousand radiators involved, reliability is imperative. The IDEAL cast-iron radiators fitted at Guy's will not suffer from corrosion and will therefore last the life of the hospital.

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architects
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Architects for Housing 20 new Grade II positions at £1250 to £1500.
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Applications for above invited from qualified Architects (for Housing Division).
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Starting salaries according to qualifications and experience.

Also required are architects, architect/planners, structural engineers, building surveyors, quantity surveyors, surveyor planners in Grade III (maximum £1250) and the Assistant grade (maximum £950) in the following divisions :—

Housing, Schools, Special Works and General Divisions — new building programme — architects.
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District Surveyors' Service — Supervision of work in 28 districts in the London county to ensure compliance with Building Acts and constructional bye-laws — structural engineers and building surveyors.
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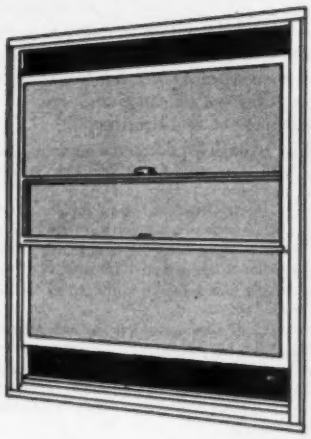
Permanency After two years satisfactory service. Application forms and particluars from Hubert Bennett, F.R.I.B.A., Architect to the Council, County Hall, S.E.1 quoting reference EK/B/2532/10.

A new CRITTALL aluminium double-hung sash



In five standard widths: 1' 4", 2' 0", 2' 8", 3' 4", 4' 0", and three heights: 3' 8½", 4' 8½", 5' 8½". Delivered ready glazed. Larger sizes, maximum 6' 0", x 4' 0", can be made to special order.

This new sash—the Mark III—is the successful Crittall Mark II improved in several important ways. First, the extruded aluminium sections have been completely redesigned. Second, the continuous sash-lifts at the bottom of each frame are now an integral part of the extrusion. And third, with these improvements combined with pile weatherstripping, the window works as easily and silently as a precision-made Crittall window should—and what is more, will keep its silent, easy action throughout its life. It is less expensive too.

A copy of leaflet No. 245A giving full details of this new Crittall window deserves a place in your files. We will gladly send one on request.

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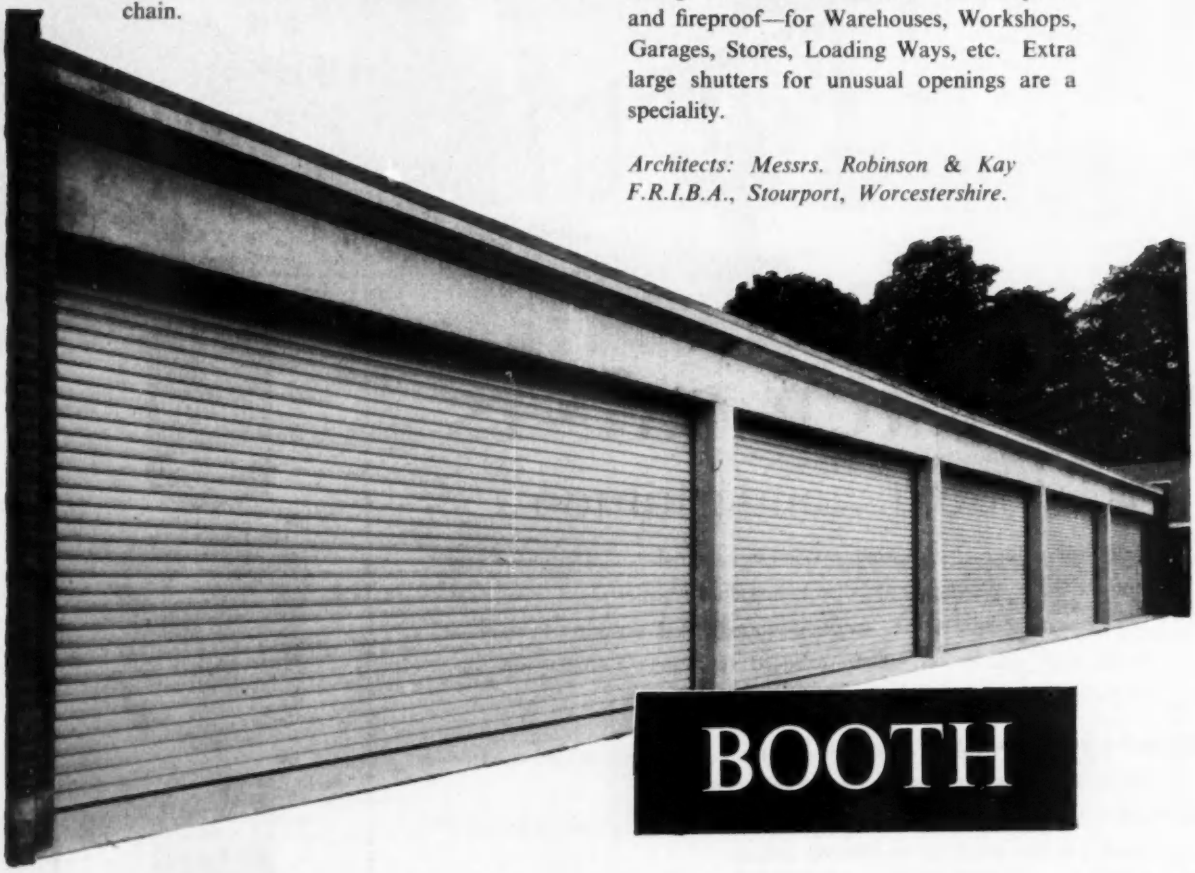
We have the facilities for fabricating and fitting all kinds of shutters—weatherproof and fireproof—for Warehouses, Workshops, Garages, Stores, Loading Ways, etc. Extra large shutters for unusual openings are a speciality.

Architects: Messrs. Robinson & Kay F.R.I.B.A., Stourport, Worcestershire.



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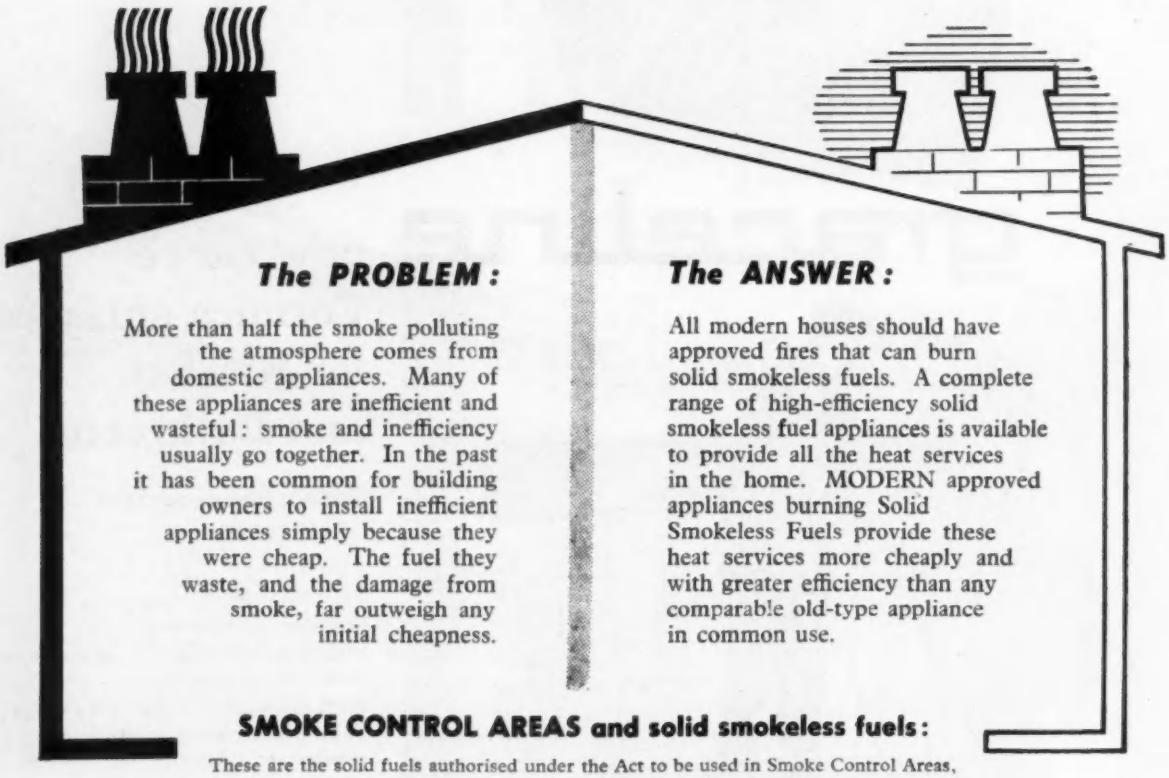

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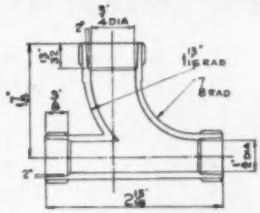

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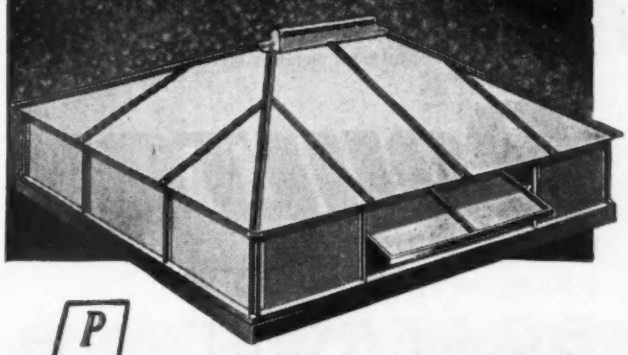

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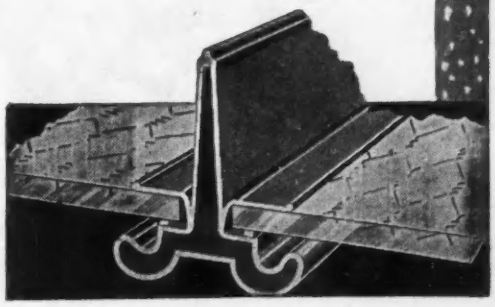

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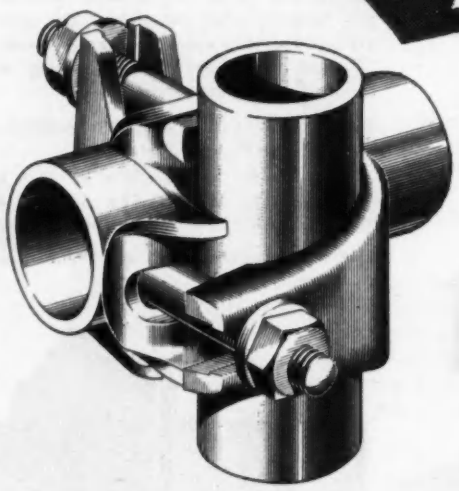

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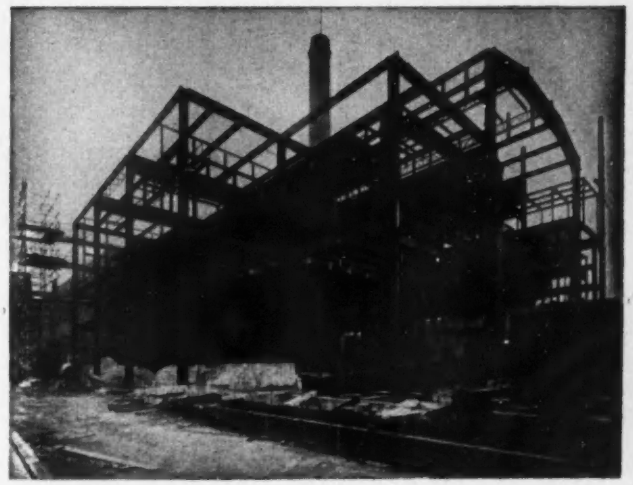

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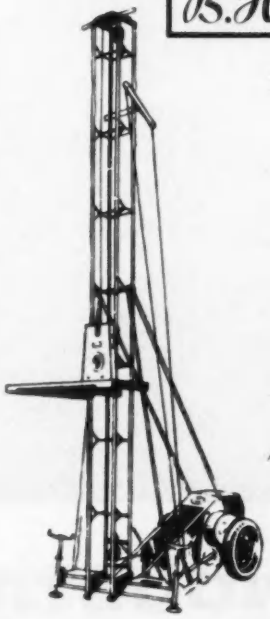

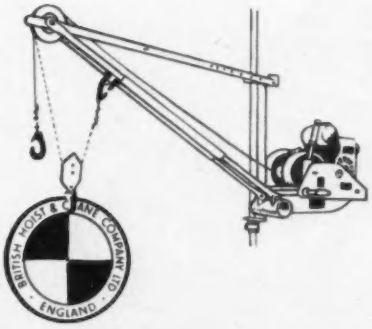

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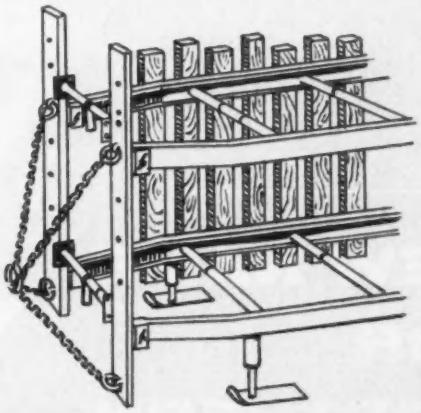

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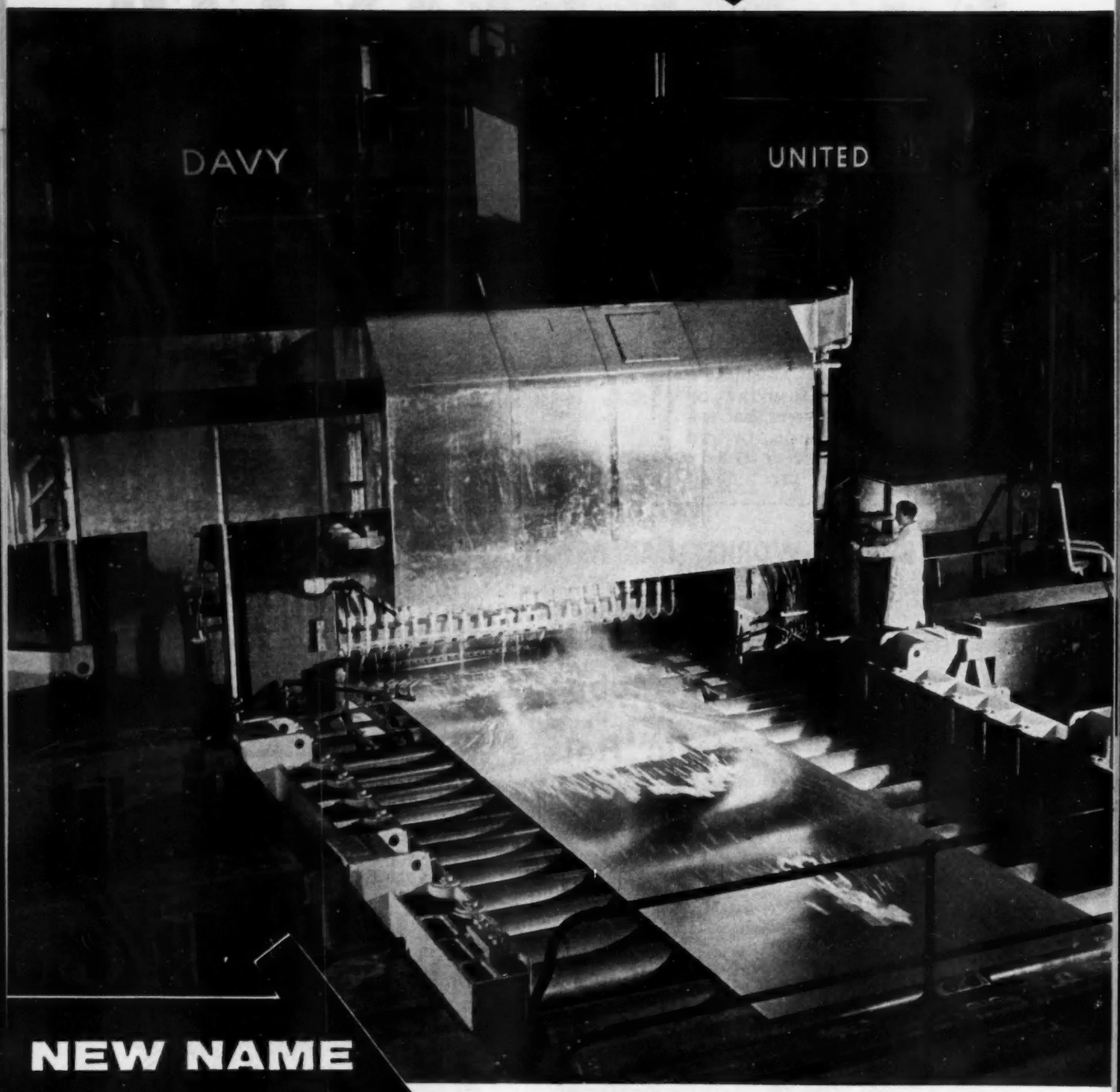

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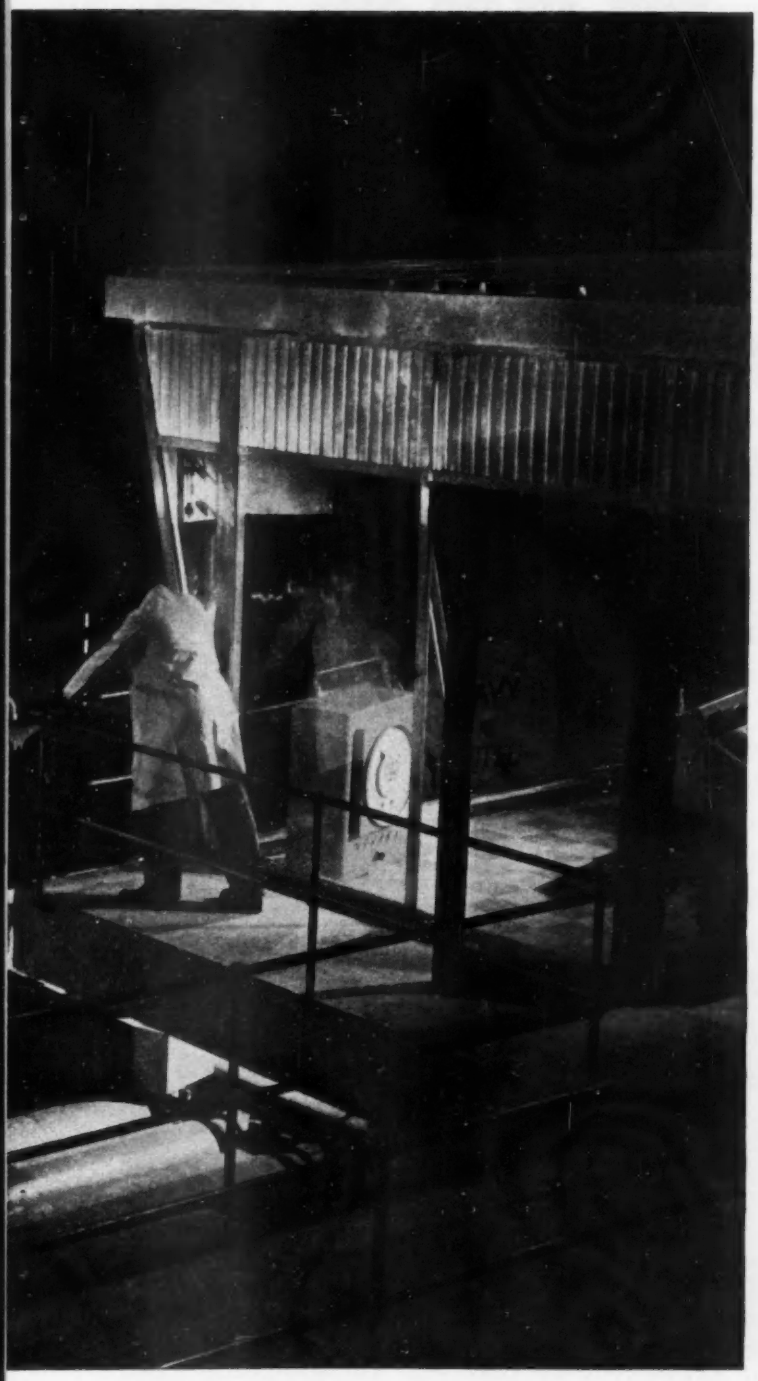
aluminium rolling mill in Europe



This 8,000 horse-power 144-inch mill, first stage in a 'hot line' one third of a mile long, is the centrepiece of the latest expansion of the continuous strip mill at Rogerstone, Monmouthshire. New equipment and modernisation at a cost of over £7 million makes Rogerstone the largest aluminium rolling mill in Europe, with a nominal capacity of 70,000 tons of sheet and strip products a year, plus a substantial extra capacity for hot-rolled coil and plate. It demonstrates the determination of Alcan Industries – the new name of Northern Aluminium Company – to maintain their position as leading suppliers of aluminium products to British industry.
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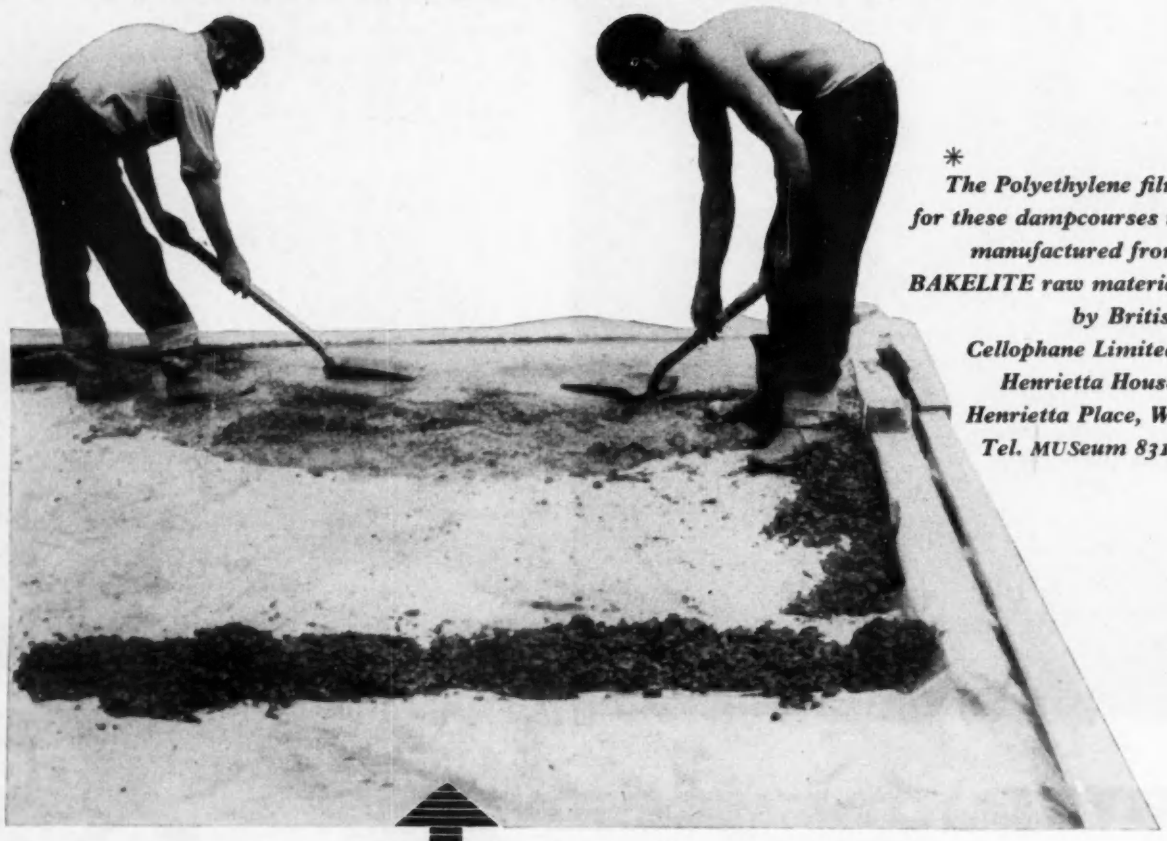

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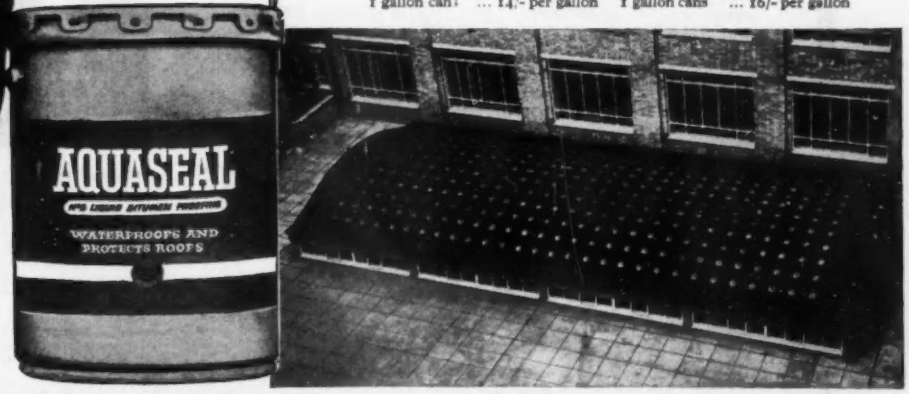

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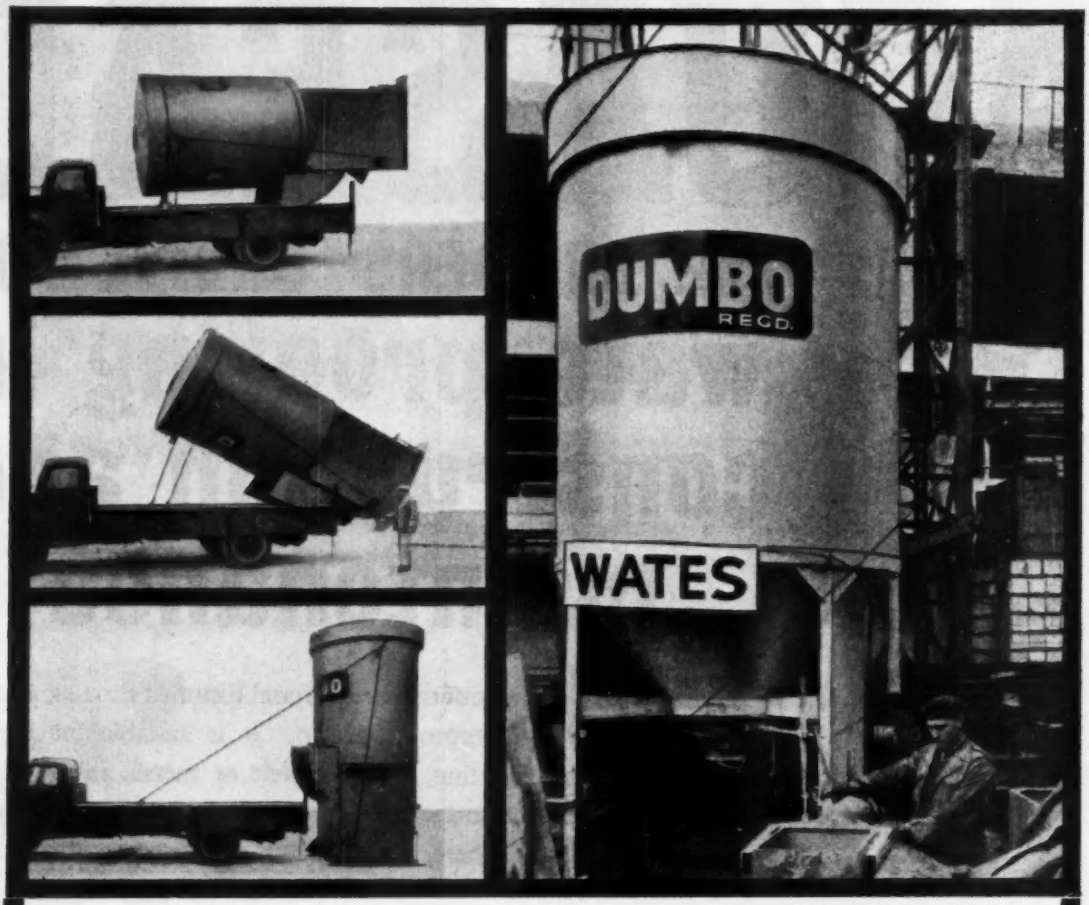

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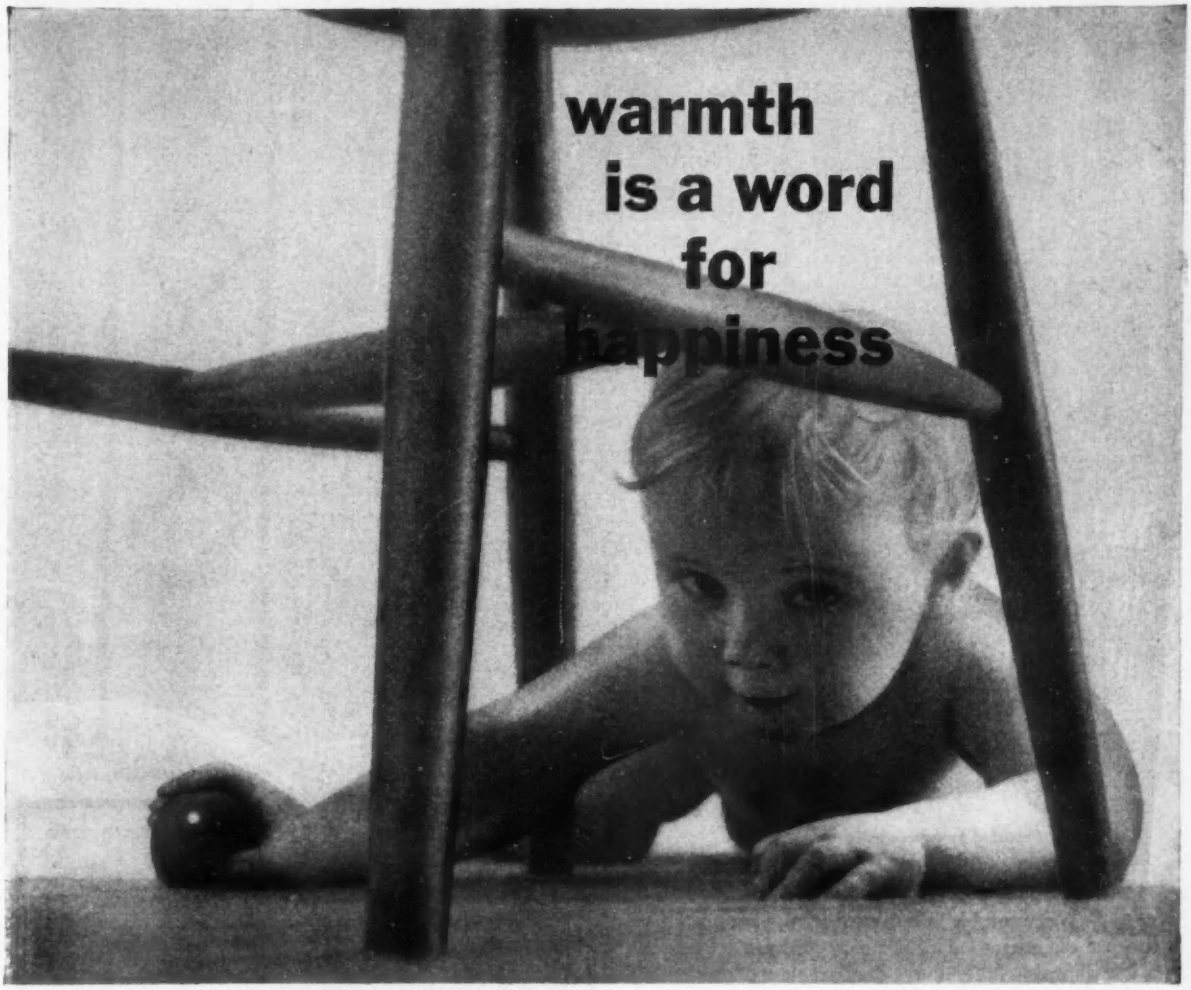

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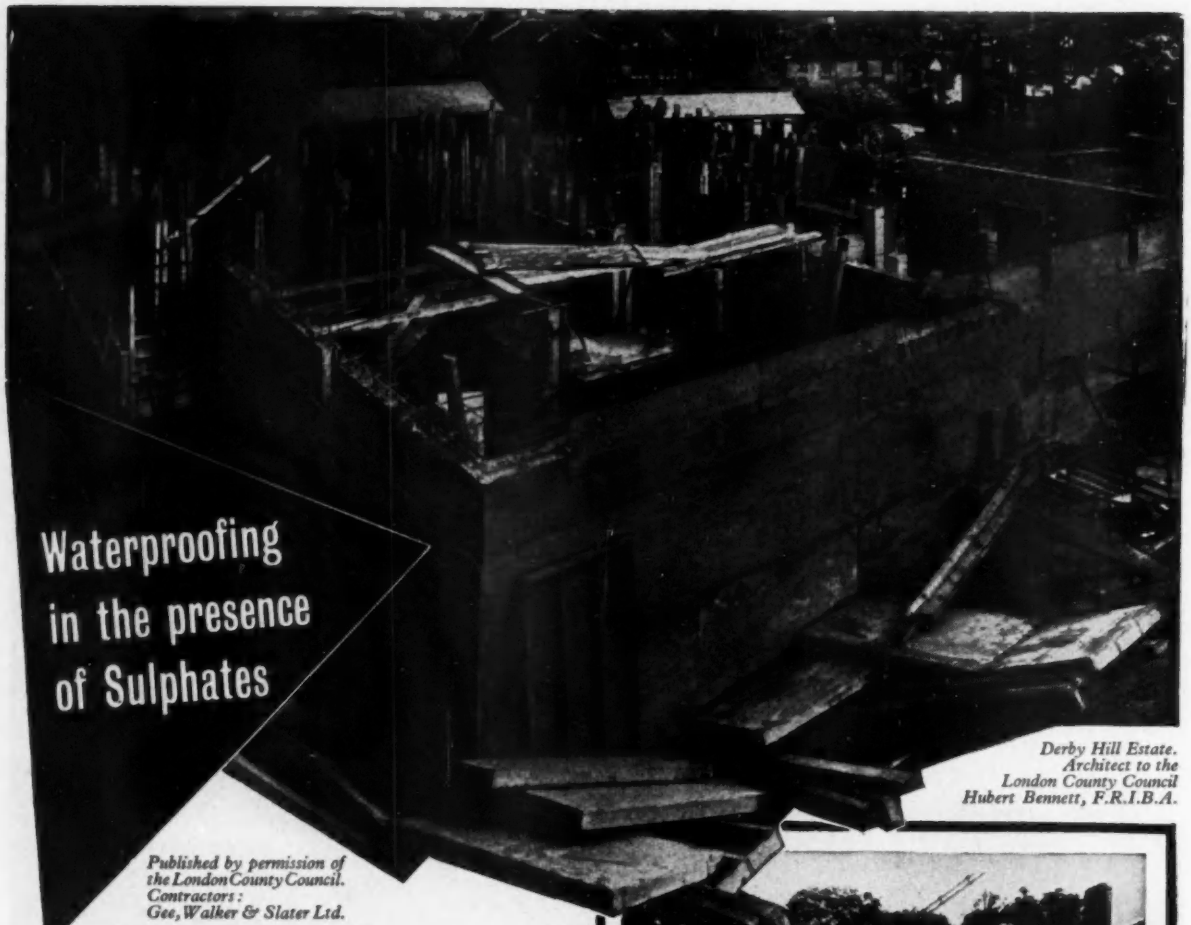

Waterproofing in the presence of Sulphates

Derby Hill Estate. Architect to the London County Council Hubert Bennett, F.R.I.B.A.

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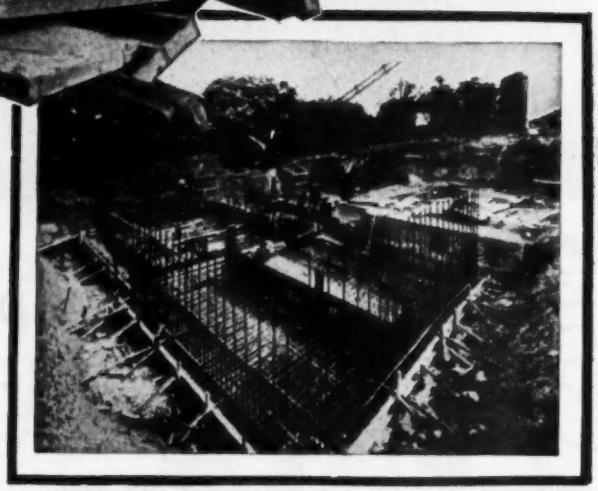

When soluble salts of sufficient concentration to cause disintegration of ordinary concrete are present in a damp site, there is the dual problem of preventing sulphate attack and of protecting the concrete in contact with the ground from penetration of dampness.

These conditions have been met and overcome on numerous sites by the use of 'PUDLO' Brand Waterproofer in combination with sulphate resisting Portland cement.

A typical instance is in the construction of blocks of flats for the London County Council at Derby Hill, Sydenham, London, S.E., where the reinforced concrete forming the cellular raft foundation and basement walls is composed: 1 part sulphate resisting Portland cement, 2 parts coarse washed sand, 4 parts non-porous aggregate ¾" down, with the inclusion of 3 lbs. 'PUDLO' Brand Waterproofer per 100 lbs. of cement.

Illustrations are of work in progress to 2 blocks.

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H.P. 6309

News Summary

656 Among the agreements reached by the Commonwealth architects' conference which met at the RIBA from September 19 to 23 was that reciprocal recognition of qualification for registration was desirable.

657 The Faculty of the British School at Rome has been unable to make an award for the Rome Scholarship in Architecture.

659 That architecture was a badly documented profession supplied with too much information of inferior quality and too little useful technical literature, was the theme of a lecture by Mr. Dargan Bullivant given at Bristol on September 28.

661 The future of church architecture in this country was the subject for discussion at a conference of architects and clergy held at Liverpool University from September 19 to 21.

661 A proposal to build a film studio at Brighton has been rejected by the Minister of Housing and Local Government.

662 In his opening address to the DSIR conference on 'Ergonomics in Industry' on September 27, Lord Hailsham said that classical scholarship still had much to contribute to the world of science.

662 The question of whether the design for a shopfront would or would not blend with others in the same street has been the subject of a disagreement between a Guildford architect and the local council.

664 Insufficient money and effort spent to secure the future of the ceramic industry was condemned as unrealistic and not conducive to healthy growth by Mr. R. Spencer Copeland.

664 Speaking at Clacton-on-Sea on September 26 the Minister of Housing and Local Government said that if the whole financial burden were shouldered by the Government, decisions on coastal defence plans would be taken out of the hands of local people.

'Late News' will be found overleaf, and 'News of the Week' on page 657

Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

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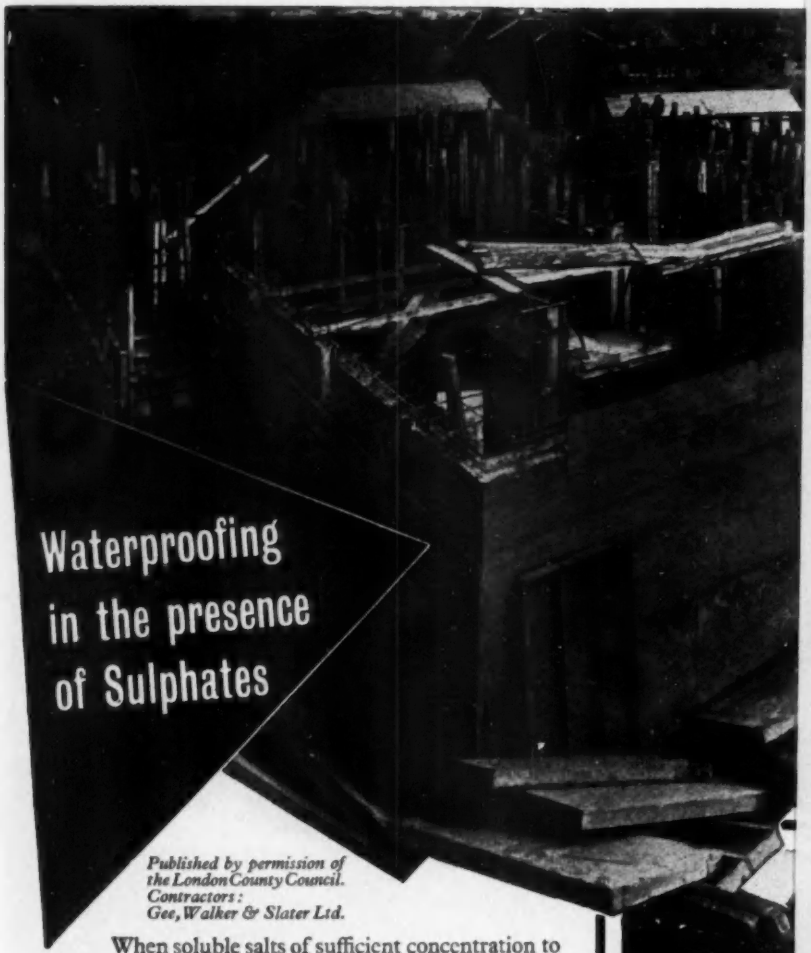
The Province of Architecture

tects, like any other atrol the boundaries d to see that their by their neighbours t. The need to pre- fession is of special le's techniques and pidly. Consequently ecent statement on l text we published to have been entirely d itself worried by on the part of local cal sites by inviting ompetition with one eir designs for how s process the RIBA m the function and ing a wrongful dele- levelopers interested ns.' The statement terest the developers it propounded alter- y architectural com- hould be handed to ired before any de- ire.

er the other parties t first sight possess natural attractions for the architect—provided that it did not impair the chance of having his design carried out in the end—and it should be said at once that any step must always be welcome if it can increase the architect's opportunities or enhance his prestige. But it must sincerely be asked whether this RIBA statement will have that effect, whether it improves the prospect of good civic developments, and whether the profession of architect is really helped by claiming to supplant by a master-decision the bids of competing developers. The statement is at some pains to ensure that the development should be designed irrevocably by an architect before any steps are taken to seek developers willing to invest their money in carrying it out. Thus adoption of the method would effectively rule out the play and interplay of one prospective developer's ideas against another's in a free market. The tenders that developers would be invited to submit after the scheme had been designed would only be to acquire the right and duty to carry out someone else's scheme for themselves at their own risk.

Such a system would clearly inhibit the natural initiative of developers, on which the whole creation of land values and the whole operation of redevelopment ultimately depends. And if there is one thing whose resurgence has been welcome to architects and whose health architects should wish to promote by all means within their power it is the initiative of a wide variety of developers. Developers supporting the system of 'competition by tender' which the RIBA condemns are certainly likely to employ



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Late News

Fall in Work Commissioned

FIGURES CURRENTLY ISSUED by the RIBA show that the value of new work commissioned of private architects in the second quarter of 1960 fell by one-quarter from the level in the first three months of the year. It was still one-fifth greater than a year earlier. The decrease of one-quarter is greater than the comparable figure for 1959 and this, it is suggested, may be due to the influence of the tighter credit measures introduced earlier this year.

RIBA Bronze Medal Awards

THE FOLLOWING AWARDS of RIBA Architecture Bronze Medals have been made:

Northants, Beds. and Hunts. Association of Architects: House for Mr. A. V. Marques, Studham, Beds.; Messrs. Peter Dunham, Widdup & Harrison, FF/ARIBA, architects; W. A. Nelsey & Sons, Ltd., contractor.

South Wales Institute of Architects: Depot and offices, Kardov, Fforestfach, Swansea: Messrs. Smith, Wilson & Cox, F/AARIBA, architects; E. Turner & Son, Ltd., contractor.

Royal Australian Institute of Architects (New South Wales Chapter): Qantas House, Elizabeth-street, Sydney, NSW: Messrs. Rudder, Littlemore & Rudder, AA/RIBA, architects; Concrete Constructions Pty., Ltd., contractor.

BAE Deputy Secretaryship

MISS JOAN M. N. MILNE, at present an Assistant Secretary RIBA with special responsibility for statistical research, has been appointed Deputy Secretary to the Board of Architectural Education.

An advertisement has been issued for her replacement as the Institute's statistical economist.

New Oxford University Quadrangle

A NEW QUADRANGLE formed by two blocks, bounded on the east by the examination schools and on the south by the History Faculty library of the university, is to be built at a cost of £150,000. Work will begin this week and is expected to be completed in 12 months. The architects are Professor Robert Matthew, CBE, FRIBA, and Mr. S. A. W. Johnson-Marshall, CBE, ARIBA.

Nigerian Contract for Britain

A CONTRACT valued at over £350,000 for a 3-storey departmental store, the Kingsway, Ibadan, Western Nigeria, has been awarded to Taylor Woodrow (Nigeria) Ltd. by the United Africa Company of Nigeria Ltd. The architects are T. P. Bennett & Son; the consulting engineers, Ove Arup and Partners; and the quantity surveyors, Messrs. Gardiner and Theobald.

The Builder

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The Province of Architecture

WITHOUT doubt it is right that architects, like any other profession, should from time to time patrol the boundaries of their province. They are entitled to see that their frontiers are in good shape, respected by their neighbours and free from encroachment or threat. The need to preserve intact the territory of one's profession is of special importance today, when other people's techniques and activities can change their shape so rapidly. Consequently the idea lying behind the RIBA's recent statement on 'Competition by Tender,' whose full text we published in our issue of September 16, appears to have been entirely legitimate. The RIBA Council found itself worried by what it took to be a growing tendency on the part of local authorities to dispose of important local sites by inviting prospective purchasers to submit in competition with one another their bids together with their designs for how the land should be developed. This process the RIBA evidently construed as derogating from the function and opportunity of the architect and as being a wrongful delegation of the planning function 'to developers interested primarily in their own financial returns.' The statement did not go on to say what primary interest the developers should substitute for their own. But it propounded alternative methods by which, whether by architectural competition or otherwise, the initiative should be handed to the architect to design what is required before any developer be allowed to enter the picture.

Such a ready-made dominance over the other parties involved in a development would at first sight possess natural attractions for the architect—provided that it did not impair the chance of having his design carried out in the end—and it should be said at once that any step must always be welcome if it can increase the architect's opportunities or enhance his prestige. But it must sincerely be asked whether this RIBA statement will have that effect, whether it improves the prospect of good civic developments, and whether the profession of architect is really helped by claiming to supplant by a master-decision the bids of competing developers. The statement is at some pains to ensure that the development should be designed irrevocably by an architect before any steps are taken to seek developers willing to invest their money in carrying it out. Thus adoption of the method would effectively rule out the play and interplay of one prospective developer's ideas against another's in a free market. The tenders that developers would be invited to submit after the scheme had been designed would only be to acquire the right and duty to carry out someone else's scheme for themselves at their own risk.

Such a system would clearly inhibit the natural initiative of developers, on which the whole creation of land values and the whole operation of redevelopment ultimately depends. And if there is one thing whose resurgence has been welcome to architects and whose health architects should wish to promote by all means within their power it is the initiative of a wide variety of developers. Developers supporting the system of 'competition by tender' which the RIBA condemns are certainly likely to employ

a greater number and variety of architects than would find paid work under the RIBA's alternative proposals, and this in itself could bring more character and variety to our towns. Local authorities have shown themselves proof against temptations to accept highest bids at the cost of good planning, and of course the temptation to pursue profit at the cost of art could be as operative, or as remote, under one procedure as under the other.

The system of competition by tender, if that is now to be its name, has been patronised by leading local authorities, by distinguished architects and by highly reputable investors. It has some substantial successes to its credit. No doubt as a system it is far from perfect, and needs developing and improving as time goes on. But it is a system which may help rather than hinder the architect and it would be a pity to strangle it so soon after birth.

Architects in the Commonwealth

AN INDEPENDENT NIGERIA has just been welcomed into the Commonwealth as its fourth largest member. In descriptions of the country on Independence Day, prominence was given to its fine new buildings, almost all the work of architects from Britain with a small, but growing number of Nigerian colleagues. It has been a most appropriate time in Commonwealth history for representative architects to meet to discuss common problems.

The report of the Conference, of which details are given elsewhere, shows a considerable measure of agreement on important professional issues like registration and education. The idea of a permanent body for Commonwealth co-operation was well received. If the constituent societies overseas and in Britain to whom the recommendation is being referred agree, there will be a preparatory conference in London in 1962 to set the seal on a permanent organisation for consultation among Commonwealth architects through periodic conference.

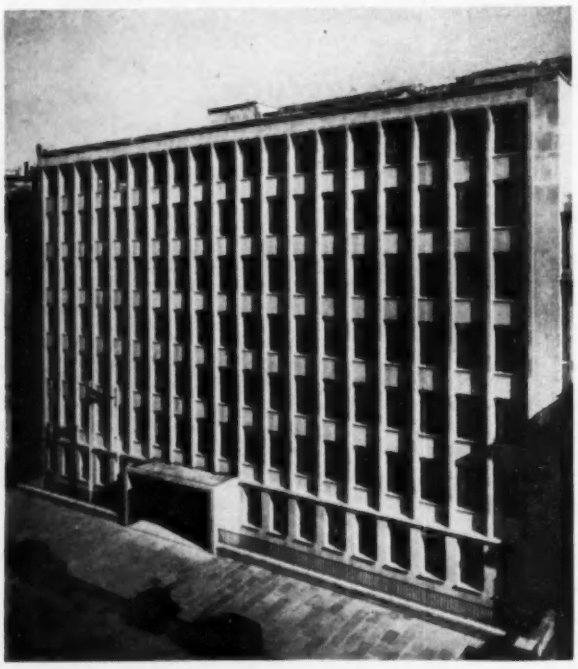
The RIBA's initiative in causing Commonwealth architectural relations to be reviewed at this point in history is to be commended. As senior partner among Commonwealth institutes and societies, the RIBA has up to now assumed responsibility for matters of professional policy in the Commonwealth which are not the direct concern of a particular local institute. If the Commonwealth as a free association of independent and equal partners is to be a reality, British architects—like the United Kingdom Government in the wider field of political and economic affairs, a matter also discussed last week by a Select Committee on Estimates—must avoid any suspicion of trying to run the affairs of other Commonwealth countries, especially of the new independent members.

This will not be easy. Government and the public in the emergent countries are only beginning to understand what an architect does. As the RIBA conference agreed, much has to be done to foster such understanding. Yet because there are so few local men greater use of architectural services would in the near future largely benefit men from overseas. Again, professional service is a new and only partly accepted concept. (Active promotion by contractors and suppliers of prefabricated structures or all-in services does not make the value of an independent professional man any easier to understand.) But, as architects from Britain still run the larger private practices and fill many senior public posts, issues like registration and codes of professional conduct appear to have the objective of strengthening their position as they may do initially.

In the first flush of independence, the demands on the professional loyalty of the young local-born architect are great. Unless senior colleagues are understanding, there is a risk of a split in the profession—as happened in Singapore—and a consequent deterioration of educational and professional standards. Isolated action by the RIBA might appear partisan and not be well received, yet to stand aside may mean a serious setback to architecture. A permanent Commonwealth organisation would be in a better place to intervene and help raise standards.

The recent Commonwealth meeting paid special attention to architectural education in the developing countries. Support was given to the idea of a Commonwealth Educational Committee. Though the dangers of diluting the profession were appreciated, it was agreed that some architectural training, however modest, is better than none. The older Commonwealth countries need to co-operate closer than they do at present in helping their younger fellows expand and improve facilities for architectural education. There are three ways in particular where help is needed: first, to ensure that in schemes like the Colombo Plan governments give proper weight to the training of architects—also of builders; second, to make even greater provision in their schools for overseas students; and third, to encourage experienced teachers to go overseas to the schools of architecture and building now opening up.

Among other points of agreement the Commonwealth Architects' meeting accepted the need to improve the flow of information between Commonwealth countries. It proposed that this would become one of the functions of the permanent Commonwealth Conference organisation. Here the work both of the technical Press and of Commonwealth building research organisations, who already have close links, should not be ignored.



Meldrum House, Edinburgh, a nine-storey block of offices built on the site of the old Free St. Andrews Church, Drumsheugh-gardens, for Amalgamated Securities Ltd., and opened on September 20 by Lord Craigton, CBE, Minister of State. The architects were Messrs. Rowand Anderson, Kininmonth & Paul, of Edinburgh; the consulting engineers, Messrs. Blyth & Blyth; and the main contractors, Messrs. James Laidlow & Sons

Notes of the Week

Architectural Research at the War Office ; Car Parking ; From Brussels to St. Louis ; LMBA Changes ; The Deadly Stiletto

IT IS INTERESTING TO NOTE that Mr. J. H. Garnham-Wright, ARIBA, DipArch, has joined the War Office Directorate of Works under Mr. Donald Gibson, where he is primarily to be concerned with research and development. Since the war Mr. Garnham-Wright has, for the most part, been with the Kent County Council for whom he has been engaged on the construction of buildings to modular theories. He was largely responsible for Dartford Technical College, which broke fresh ground in this direction.

At the War Office at Chessington, he will concentrate on building technology in which he believes there is much interesting work to be done, perhaps in collaboration with some of the Universities where it is hoped to get some practical work going which will serve not only the War department but the wider interests of the building industry. As a subsidiary responsibility, Mr. Garnham-Wright will look after the Directorate's associations with the Press, and particularly with the technical Press. In this field, as well as in the wider sphere, he will be assured of a welcome.

* * *

FROM NOW ON, by the way, the War Office will be using the international A4 and A5 sizes of stationery. Architects and engineers of the Directorate are adopting the A1, 2 and 3 sizes for drawings for an experimental period.

Car Parking

THE MOTOR VEHICLE, provision for its efficient use, and, equally important, provision for its storage whilst not in use, has occupied, and will continue to occupy, the minds of planners, scientists and administrators until an adequate solution has been found. To bring into proper perspective its inherent dangers, the Institution of Municipal Engineers sponsored a convention on 'The Problems of Car Parking' at the Central Hall, Westminster, on October 6. Over nine hundred delegates heard five municipal engineers from various parts of the country read papers, stating the problem as it affected their own towns or cities.

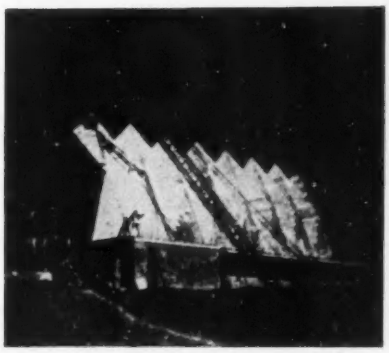
* * *

BY FAR the most positive contribution was the paper by Mr. Granville Berry, Coventry city engineer and surveyor, who condemned short-term measures of restriction as unlikely to solve the problem and which may well aggravate it and reduce still further the traffic capacity of the highway. He described such positive measures as roof-top parking systems, multi-storey car parks, and ramped and mechanical parking systems. He gave examples of schemes already in operation in this country, on the Continent, and in the United States. The cost, construction problems, operation, control and administration related to the provision of car parks have all been given at various times as reasons for delay, but, as Mr. Berry inferred, these can be overcome, and indeed will have to be if we are to continue to travel on wheels.

The importance of this problem is immense and awareness of it was manifested by the large attendance at the convention. The useful exhibition of various kinds of multi-storey, underground, and other types of parking garages, was staged during the convention with the help of the British Road Federation.

From Brussels to St. Louis

SINCE ARCHITECTS IN THIS COUNTRY are often said to take their best ideas from abroad, it is pleasant to see from the August issue of the American 'Progressive Architecture' that the operation sometimes works in reverse. Our contemporary shows illustrations of the new Independent Congregational Church in St. Louis, Missouri, in which the architect and structural consultants 'jointly evolved a plywood stressed-skin system that is of considerable structural as well as aesthetic interest.' No one will disagree with that verdict, certainly not anyone who saw the UK Government pavilion at the Brussels Exhibition in 1958 where the architects, Messrs. Howard Lobb & Ratcliff, in conjunction with the late Felix Samuely and with the assistance of the Rainham Timber Engineering Co. Ltd. worked out the original crystal-shaped elements which gave the pavilion its distinctive appearance. We notice that the American architects make no acknowledgement to what is obviously the prototype of their church; in this sort of thing credit is all too seldom given.



The Independent Congregational Church, St. Louis, USA (see Note 'From Brussels to St. Louis')

LMBA Changes

ALL WHO HAVE KNOWN and appreciated the magnificent service that Mr. R. E. Stenning has given to the LMBA during the 14 years of his secretaryship will regret to learn that he is leaving the Association early in the new year to join the board of Falkus Bros. Ltd., the old-established firm of City builders. The LMBA advertises in another part of this issue for a secretary, to take up duty on January 1 next.

Another change is pending in the secretaryship of the National Contractors' Group of the Association. This follows on the appointment of the present holder of the post, Mr. Philip Smith, as Director of the Midland Federation of Building Trades Employers. Applications for a successor are also invited.

* * *

THE FACT that Mr. G. H. A. Hughes, who has only recently retired as Director, LMBA, had entered hospital for the first of two eye operations was conveyed to the London Builders' Foremen's Association recently by Mr. Ernest Cook, LMBA President. It is good to be able to report that Mr. Hughes stood the operation well and is in good spirits. On behalf of his many friends, we wish him the best of luck; they hope to have the opportunity of seeing him in person on November 10, when a presentation will be made to him in Carpenters' Hall.

The Deadly Stiletto

THE VENDETTA against the stiletto heel continues. It was noted in a recent issue that Rotherham Education committee has banned footwear that would damage floors in their new technical college. Now the Carpenters' Company requests that ladies who attend the presentation party to Mr. G. H. A. Hughes, noted above, should not wear stiletto heels. The damage which this feminine foible does is not confined to floors or to the lawns of University colleges; it extends (according to that lively magazine 'Earth and Sky,' published by Howard Farrow, Ltd., the civil engineering contractors) to aircraft too, for it seems that a 5/16 in. heel applies a pressure equivalent to 2 tons per sq. in.

The biggest weapons in the opposition's hands are the metal pavement grating and the Underground escalator. Yet in spite of thousands of victims claimed each day, or perhaps because of them, shoe manufacturers continue to produce this deadly but, it must be admitted, delightful type of heel. The solution to what is quite a problem could be even beyond Mr. K.

Poet's Corner

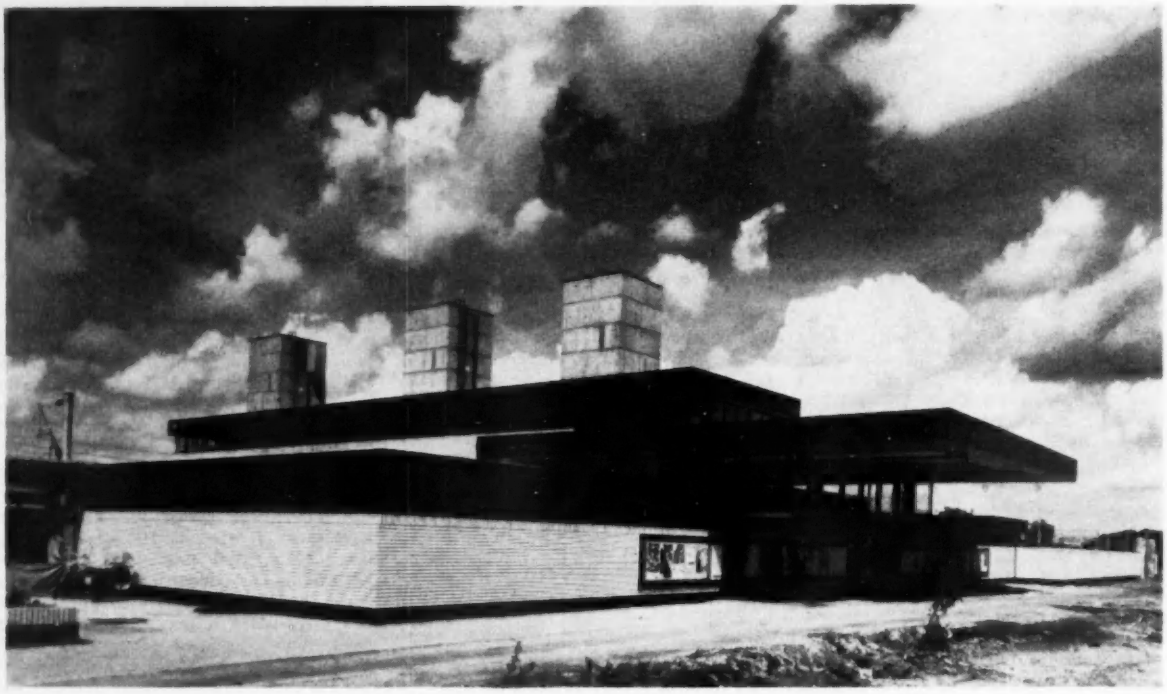
A TENDENCY TO INTRODUCE complex structural forms without any real necessity is noticed in some recent designs.

A different world it well may seem
From that of post and arch and beam.
When roofs were either flat or pitched
And architects were not bewitched
By shapes ingeniously plastic,
Sometimes approaching the fantastic.
Though one may well be overjoyed
By the hyperbolic-paraboloid
As done by Candela in 'shell,'
Especially if suited well
To purpose, there's no approbation
For fashionable affectation.

ANON

Harlow Town Station

H. H. POWELL, BARCH, FRIBA, architect, eastern region, under the direction of
A. K. TERRIS, BSc, MICE, chief civil engineer, eastern region
PAUL HAMILTON, JOHN BICKNELL, and IAN FRASER, design team
YEOMAN & EDWARDS, quantity surveyors
W. & C. FRENCH LTD., general contractors



general view from south-west

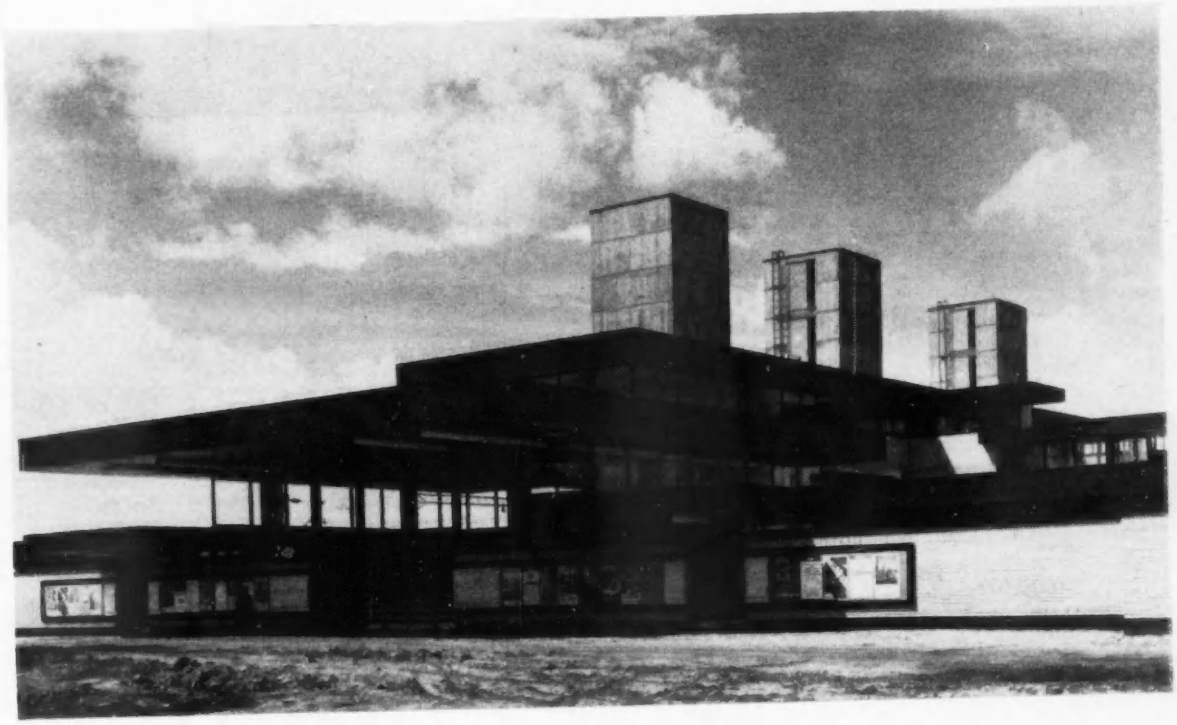
HARLOW STATION has been built afresh to cater for the expanding New Town, whose population will probably reach 80,000 by 1965. A few years ago, Harlow's population was about three thousand, who were adequately served by the two small stations of Harlow and Burnt Mill. But neither was, of course, equipped to absorb the 'bulge' of New Town expansion, as envisaged by the Development Corporation's plans for the area. As Burnt Mill was nearer to the housing estates, British Railways chose it as the site for the new station. It is separated from the Town Centre—half-a-mile to the south—by an area reserved for parks and playing fields. The station forecourt will form the nucleus of a small commercial centre and parking space for 400 cars will be provided. Work on the new station began early in 1959 with the gradual demolition of the old buildings and the construction of the new. When work was almost completed, the new station was named Harlow Town, and Harlow Station, 1¾ miles along the line, became Harlow Mill.

The station is approached from a short access road leading directly off the town ring road. Passengers enter a main concourse, which contains a ticket office, public telephones, bookstall, tobacco kiosk and station master's office. The inquiry and parcels office and large parcels yard are on the east side, while on the west is storage for 150 bicycles under cover. The station is equipped with automatic train departure indicators and a public address system. Access from the concourse to the two island platforms is by stairways up to an overbridge, on which are situated the public and staff amenities. In addition to the waiting room on the bridge, there are five glass-walled passenger shelters on the platforms. The station is so planned that parcels and packages are not handled in areas used by passengers. The entire parcels traffic is conveyed between platforms by the three lifts.

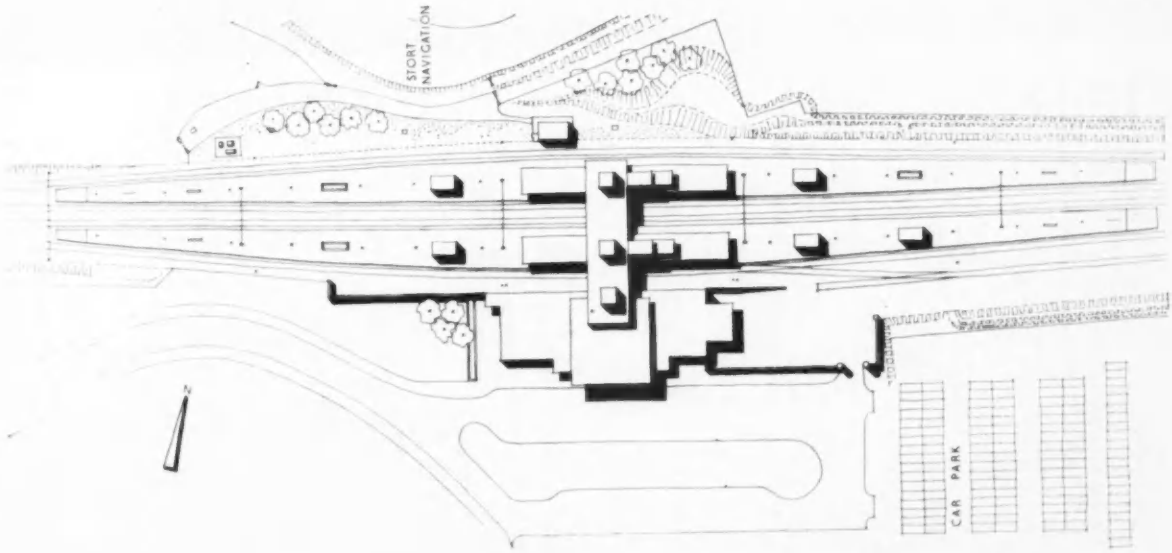
The overbridge deck is constructed of pre-stressed concrete units which rest on reinforced concrete bearings, cantilevered from the lift shafts. This allowed the bridge to be built with the minimum interference to trains. The concourse roof is supported by a concealed framework of pre-stressed concrete beams cantilevered from four pre-stressed columns. Staircases are of reinforced concrete on load- bearing brickwork. The parcels office, cycle store, overbridge roof and platform canopies and shelters are steel-framed with timber beams which were specially designed for speedy erection. The lift towers are all of reinforced concrete construction. The station roofs are covered with three-layer felt on timber boarding. As a special fire precaution the whole of the structural timber has been impregnated to prevent flame spread.

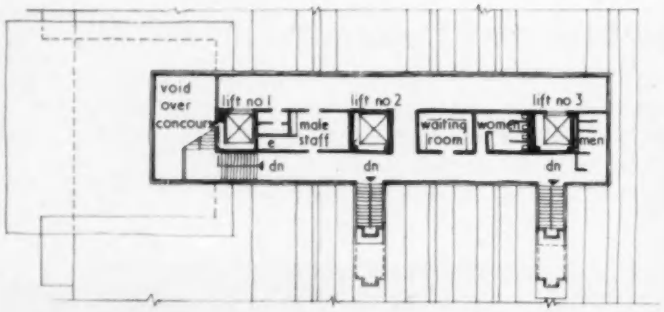
Facing bricks are Ryarsh 'Heather' flint lime with dark pointing in the horizontal joints, and the roofs have dark green painted plywood fascias. Window frames are of steel. Internal finishes have been chosen for hard wear and minimum maintenance. The public areas have blue quarry tile floors, pale blue glass mosaic walls and varnished timber ceilings.

The station buildings are heated throughout by hot-water pipes embedded in the floor surfaces and the modern lighting has been specially designed to enhance the station's appearance both by day and night.



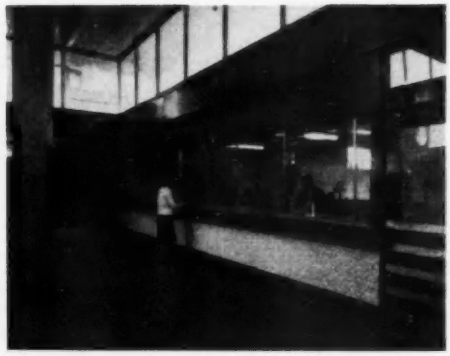
main entrance from south-east



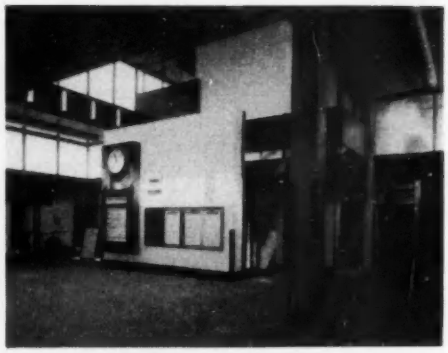


CONCOURSE & OVERBRIDGE PLANS

Scale: 1 in. = 48 ft.

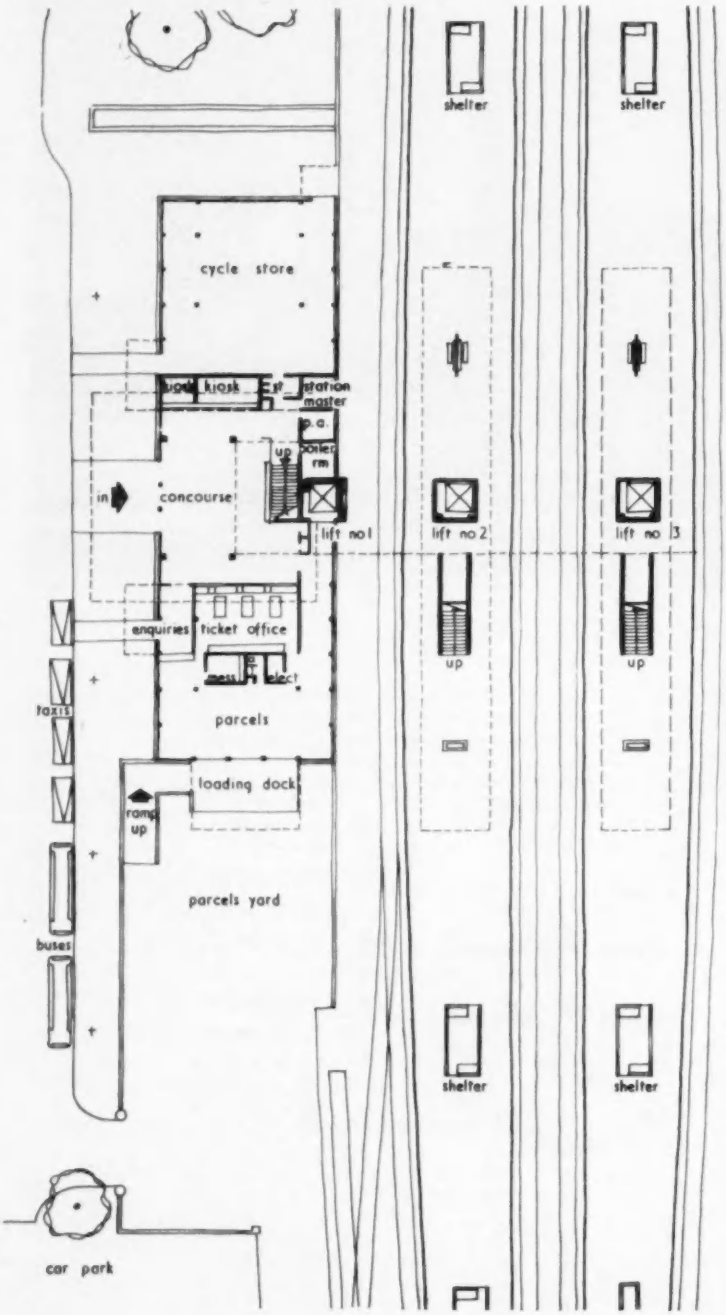


ticket office

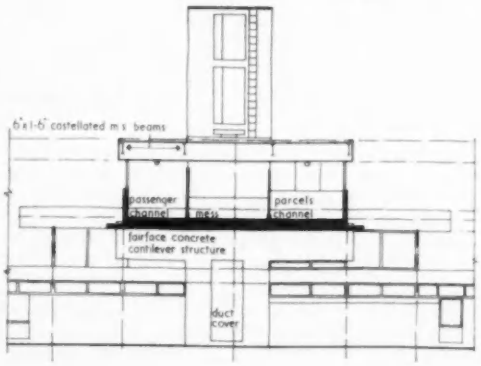


time, and train departures

view towards kiosks



OVERBRIDGE CROSS SECTION



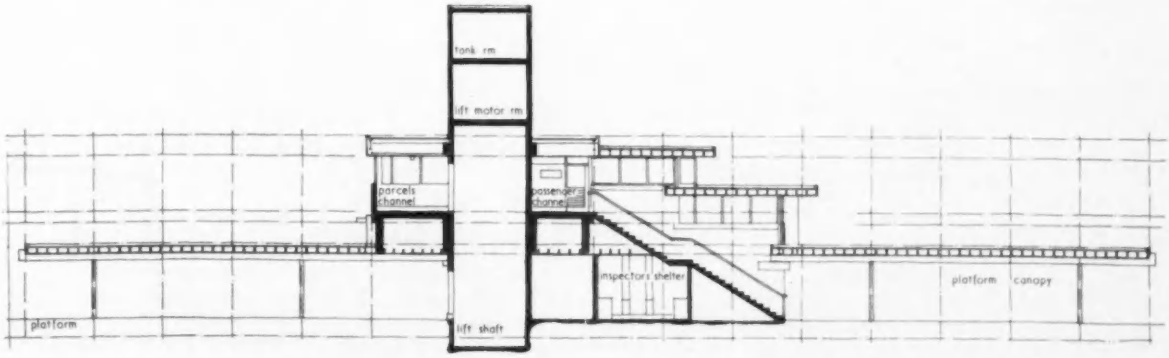
Harlow Town Station

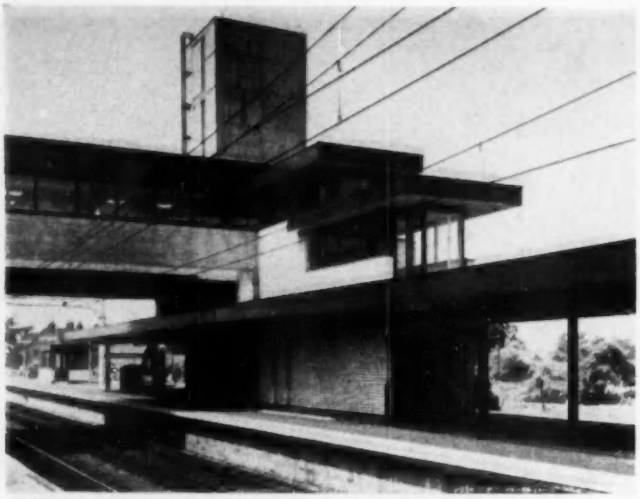
sub-contractors & suppliers:

Piling: Holmpress Piles Ltd.; *lifts:* Wm. Wadsworth & Sons Ltd.; *public address:* Easco Electrical (Holdings) Ltd.; *steelwork:* Robert Stevenson (Structural) Ltd.; *plastering:* G. H. Martin (Contractors) Ltd.; *painting:* F. Labbett & Sons Ltd.; *tiling:* Parkinsons (Wall Tiling) Ltd.; *glazing:* Faulkner, Green & Co. Ltd.; *plumbing:* Matthew Hall & Co. Ltd.; *windows:* Henry Hope and Sons Ltd.; *stonework:* J. Bysouth Ltd.; *mosaic:* Proctor & Lavender Ltd.; *electrical work:* Haines and Sheppard Ltd.; *asphalt:* The General Asphalte Co. Ltd.; *roofing:* Cambridge Asphalte Co. Ltd.; *roller shutters:* Haskins; *lightning conductors:* J. W. Gray & Son Ltd.; *heating and gas installation:* Norris Warming Co.; *linoleum flooring:* Raymond Leonards Ltd.; *parcels yard gates:* Bayliss-Jones & Bayliss Ltd.; *ticket office equipment:* Roneo Ltd. *special timber beams:* Gabriel Wade & English Ltd.; *ironmongery:* Parker, Winder & Achurch Ltd.; *rooflights:* Quickthо (1928) Ltd.; *paint:* Smith & Walton Ltd.; *bricks:* Proctor & Lavender Ltd.; *glazed tiles:* Purbeck Decorative Tile Co.; *plastic angle drips:* U.A.M. Plastics Ltd.; *vitreous enamel signs:* Mead, McLean & Co. Ltd.; *concourse train indication:* Partington Advertising Co. Ltd.; *overhead line structures:* Tubewrights Ltd.; *sanitary fittings:* Stitsons Sanitary Fittings Ltd.; *illuminated sign:* British Sign & Electrical Co. Ltd.; *applied lettering:* Furneaux (Industrial Supplies) Ltd.; *furniture and fittings:* Wm. Dibben & Sons Ltd.; *door mats:* United London Workshops for the Blind (Sales) Ltd.; *ladders:* H. C. Slingsby Ltd.; *staircase, balustrades and ticket barrier:* James Hill & Co. Ltd.; *transistorised clock:* Communication Systems Ltd., Liverpool.

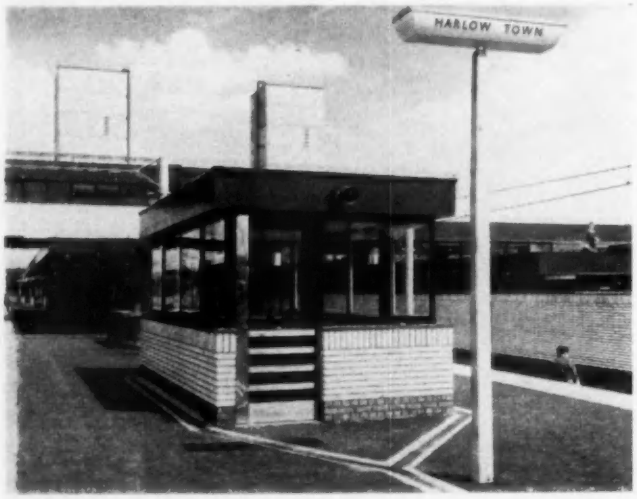
concourse viewed from the overbridge

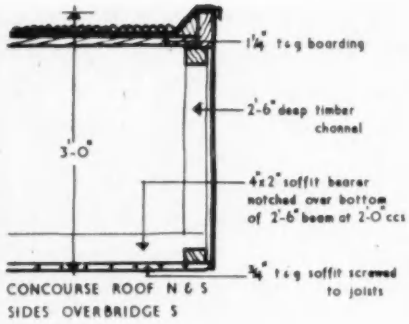
LONG SECTION, Scale: 1 in. = 24 ft.



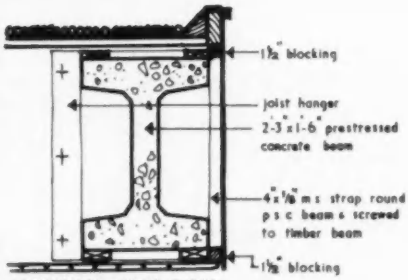


overbridge, platforms, and (below) passenger shelter

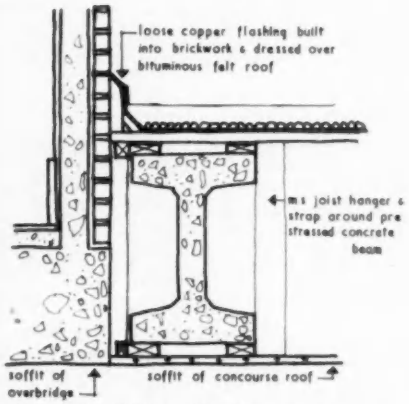




CONCOURSE ROOF N & S SIDES OVERBRIDGE S

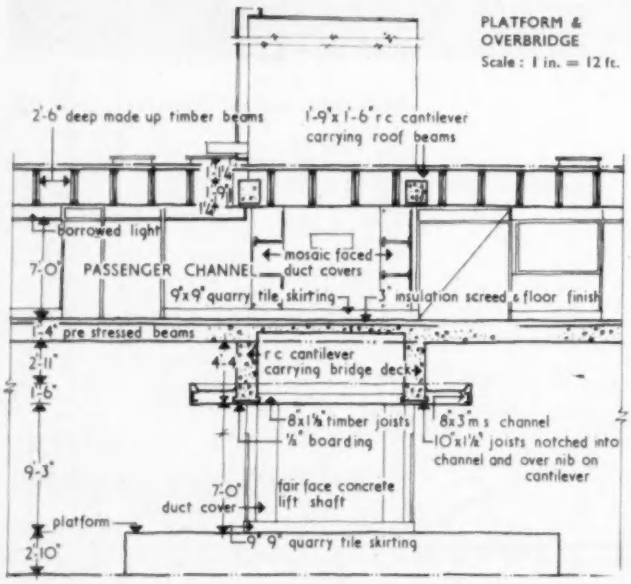


CONCOURSE ROOF E & W SIDES



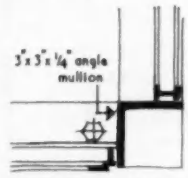
DETAIL OF JUNCTION BETWEEN OVERBRIDGE SIDE WALL & CONCOURSE ROOF

Scale: 1 in. = 2 ft.

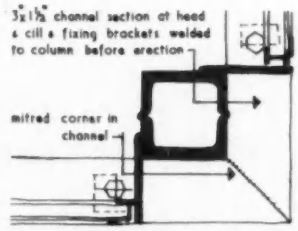


Harlow Town Station

Scale: 1/8 F.S.



EXTERNAL CORNERS AT S SIDES OF CONCOURSE



WINDOW – COLUMN CORNER

Letters to the Editor

No Change at Bristol; Canals; Personnel Shortage and the Future; Foremanship Training; To Those Who Build

SIR,—Before any of your readers send applications for the post of City Architect in Bristol which I am honoured to hold, you should inform them that they would be wasting their time! The statement in 'Notes of the Week' in your issue of September 3, that I have resigned my appointment is without foundation, as I have no intention of leaving this, one of Britain's finest and oldest cities.

It is also incorrect that there have been twenty-four resignations from my staff during the last two months. Nevertheless, it is true that in this department, with a strength of over one hundred architects and quantity surveyors, I have twenty-three vacancies for which men with initiative and enthusiasm to deal with an interesting and massive building programme can apply and are urgently required. It is also a fact that only six of these vacancies have been created during the last two months.

The Architects' Committee of Bristol City Council had this information before them recently when, among other matters, reference was made to salaries and establishment and, presumably, this has given rise to the report in your publication.

ALBERT H. C. CLARKE [FRIBA, AMTPI],
City Architect,
The Council House, Bristol.

*** We are glad to print the City Architect's letter and apologise for the mistake, which arose from an incorrect newspaper report.—EDITOR.

Canals

SIR,—The interesting article on canals by Mr. John Rae in 'The Builder' of September 9, concludes with a reference to 'the renaissance in water transport that is now under way,' but makes no other allusion to the future.

I hope we shall not be suspected of more than normal immodesty if I point out that the renaissance is attributable almost entirely to the activities and constant pressure of this Association, founded in May, 1946, with six members and now numbering about three thousand, drawn from all walks of life and all political parties.

In making this claim, we have in mind two things that are more important. The first is that no voluntary organisation can possibly succeed on the scale that our work has already achieved, unless it truly reflects a very wide and deep trend of public opinion. Almost all who come in contact with the subject at all, rapidly become convinced that the case for rehabilitating the British inland waterways system is unanswerable, and for a number of quite different reasons.

The second thing is that we have taken the lead in advocating the only solution to the problem that is workable: the transfer of all the nation's rivers and canals, those which are at present nationalised (about two-thirds of the total mileage) and those which are not, to a new and independent National Waterways Conservancy, charged with developing them in all their functions and potential functions equally: for commercial carriage (reducing the industrial traffic on the roads), for pleasure boating, for water supply, for angling, and for the sake of the sheer beauty which Mr. Rae describes and illustrates so well.

All who wish to know more are cordially invited to communicate with us. Our National Waterways Conservancy booklet, elegantly produced and easy to read, costs one shilling post free.

ROBERT AIKMAN,
Founder and Vice-President,
Inland Waterways Association, Ltd.,
11 Gower-street, WC1.

The Personnel Shortage and the Future

SIR,—On the evidence supplied by current statistics of an increase in future construction confirmed by the increase in the number of appointments open advertised in your pages, there is good reason to suppose that the demands on the industry are outrunning the available personnel, but this is mere guesswork. To get a true appreciation of the position we need to carry out a comprehensive survey of a period of years (say the past decade), taking account of such factors as government policy, the volume and value of construction (allowing for changes in the value of money) the numbers of professional personnel of all categories and grades in practice and in training, the industry's manpower, administrative supervisory and operative, the state of recruitment to its ranks, the influence on the labour force of factory production in relation to site work, the possibilities of industrial expansion at home and abroad, the probable increase in the population and the consequent demands on the resources of the industry, and so forth.

Without such a groundwork any attempt to assess the needs of the future must be valueless. No doubt most of the information needed for such an investigation is buried away in government publications and in the archives of the professional and industrial organisations. Here, surely, is a first-class opportunity for some useful research.

INTERESTED.

Foremanship Training

SIR,—In view of the work done by the City and Guilds of London Institute and the technical colleges in presenting the revised building craft courses, it is hoped that employers will take a more active part in the training of future general foremen.

Here a complete picture has been presented showing the pattern of training from apprenticeship to general foremanship studies. This should enable employers to select the type of student they think most likely to be successful in becoming site supervisors at all levels. I am sure it is the employers who can do most in this field of selection, by supplying the people to go forward for a most important branch of the building team.

H. PALMER,
49 Kenilworth-road, SE20.

'What do we want wi' private architects when there's auld Wullie wha's been wi' us syne Bannockburn?'

'To Those Who Build'

SIR,—Many thanks for having so kindly given such a good notice to the revised edition of this leaflet ('The Builder,' September 16, p. 504).

You will, I think, be interested to know that all the local authorities in Berkshire have now asked for supplies of the leaflet and are going to use it as suggested.

C. BIRDWOOD WILLCOCKS [FRIBA],
47 St. Peter's-avenue,
Caversham Heights, Reading, Berks.

RIBA Town Planning Award

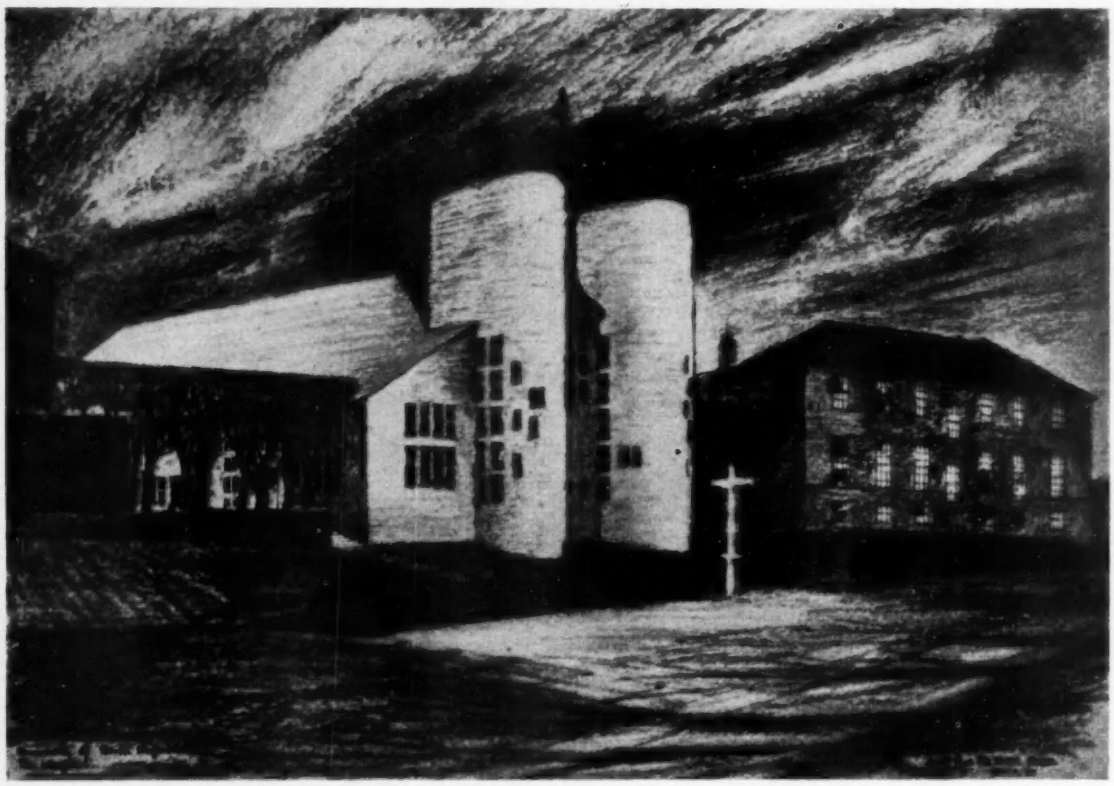
THE RIBA AWARD for distinction in town planning, which is the only award in town and country planning bestowed by the Royal Institute, is by conferment only and is limited to fellows, associates and licentiates. Outstanding work in the design and layout not only of individual buildings, but of groups of buildings, is recognised. The award is made for actual planning work, and while not primarily intended for housing layouts, such layouts of groups of buildings are not excluded.

Recommendations are submitted to the Council by a Standing Committee set up for the purpose. Personal applications by candidates are not entertained; the name of a candidate must be submitted by three or more sponsors, themselves members of the RIBA, who are required to submit details of the candidate's professional qualifications and experience and evidence of the candidate's actual planning work. Nominations may be made twice annually, on March 1 and November 1, and must be addressed to the Secretary, RIBA, 66 Portland-place, London, W1.

College Interdenominational Chapel

for the University College of North Staffordshire

GEORGE G. PACE, FSA, FRIBA, architect

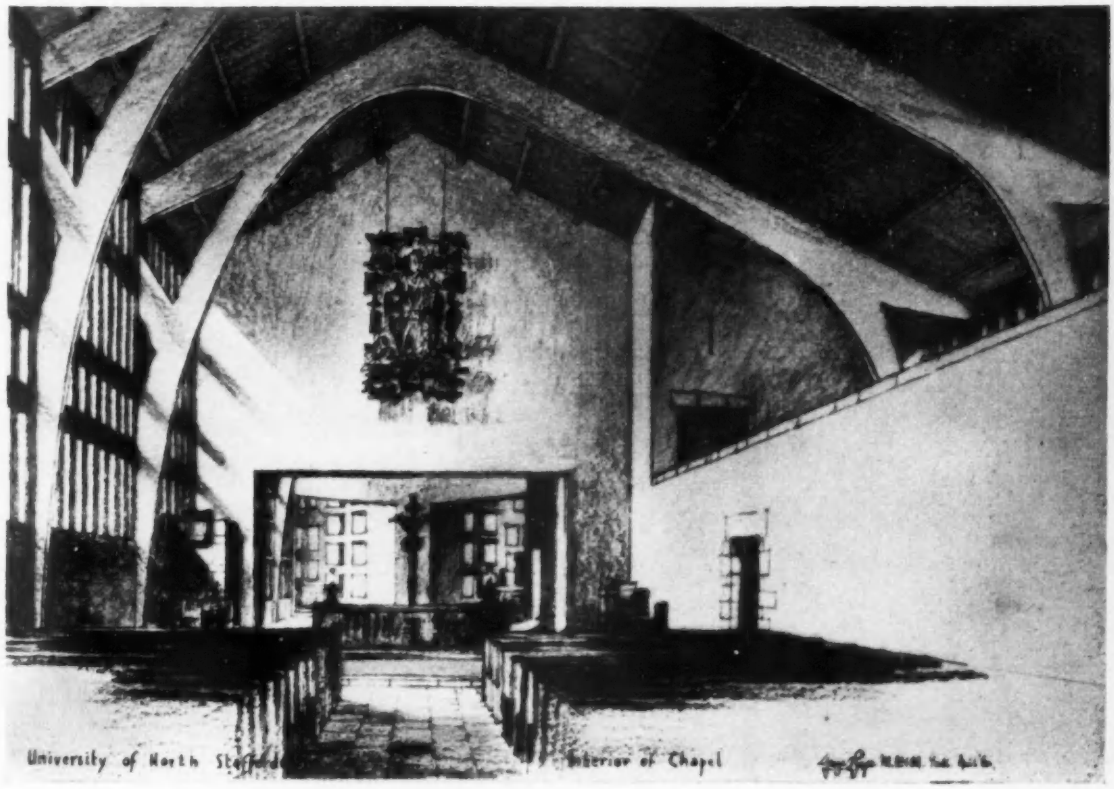


THIS PROPOSED NEW CHAPEL is an interesting solution to the holding of interdenominational services under one roof. At the foundation of University College, Lord Lindsay, the first Principal, felt that there should be a Chapel which would become the centre of the College's religious life. The College is completely residential and forms a definite and in many ways separate community of more than a thousand people. It was hoped that all whose conscience allowed would take part in the interdenominational College Service which is held each Sunday for students, staff and their families. However, separate provision is made for those who cannot join in interdenominational worship. Separate weekday and Sunday services are also held for their congregations by the Church of England, the Free Church and the Roman Catholic chaplains.

For the past ten years a temporary Nissen hut has served as the Chapel. This is now far too small and many denominational services have to be held elsewhere; staff and student numbers are increasing rapidly, and the College will have doubled its present size by 1967. Sir John Lennard-Jones, the second Principal, had already realised the pressing need for a permanent place of worship, and on his death the College established a Memorial Fund, when some £2,000 was privately subscribed towards the building of a new Chapel. Finances are not available from Treasury sources.

The new Chapel will occupy a central site in the College. Anglicans, Free Churchmen and Roman Catholics will be housed under one roof, but each congregation will be afforded use of separate sections of the building at appropriate times. In addition, facilities will be provided for interdenominational worship, such as the weekly College service. The building will also be used for the Sunday School, attended by staff children, of whom there are over a hundred living on the campus.

The Chapel has a centrally placed Altar and Communion table, and seats a congregation of 400. By lowering a screen a small Chapel is formed, which will seat 60 people, available for use by any one of the three denominations. There are two spaces at the east end of the small Chapel, one of which will be used by the Roman Catholic Church for the Reservation of the Blessed Sacrament. The second place will have an Altar-Communion table for use in Anglican or Free Church services. Screens can be drawn down over both of these spaces. The three College Chaplains will each have a vestry, and there is space in the gallery for a library and organ loft. An appeal has been launched for private donations, to raise the £60,000 required to build the Chapel.



Scale: 1 in. = 40 ft.

key to plans:

A. *Choir and high stalls.*

B. *Seating in Main Chapel.*

C. *Sanctuary with free standing Altar/Communion Table, two priests' stalls, lectern, sedilia piscina and the pulpit.*

D. *Small chapel, seating 60, with seat backs arranged to allow seating either facing main sanctuary 'C' or Altar spaces E and G.*

E. *Altar/Communion Table.*

G. *Altar space (Roman Catholic) (counter-weighted partitions can be used to separate one or other of spaces E and G so that they may be used individually with seating in Chapel D).*

F. *Belfry.*

H. *Vestries (Roman Catholic).*

J. *Vestries (Free Church).*

K. *Vestries (Anglican).*

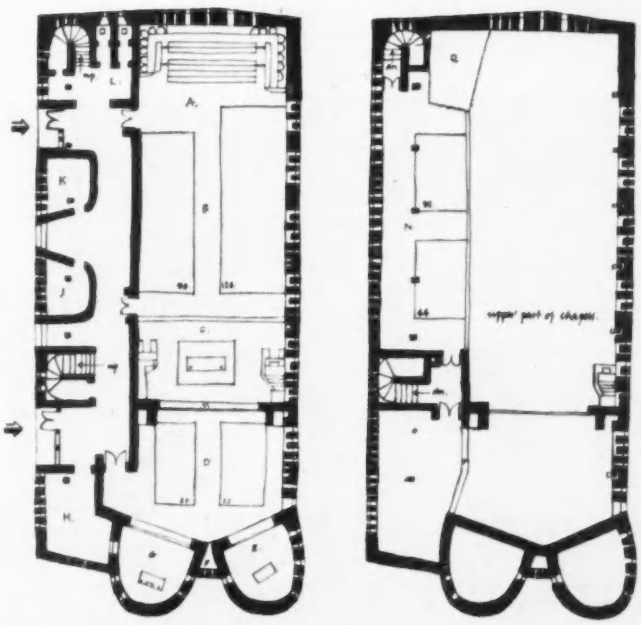
L. *Cloakrooms.*

M. *Counter-weighted partition to separate the Small Chapel, D, from Main Chapel.*

N. *Gallery Seating.*

O. *Library with partition wall P, which can be drawn back to give a view of the pulpit and Small Chapel.*

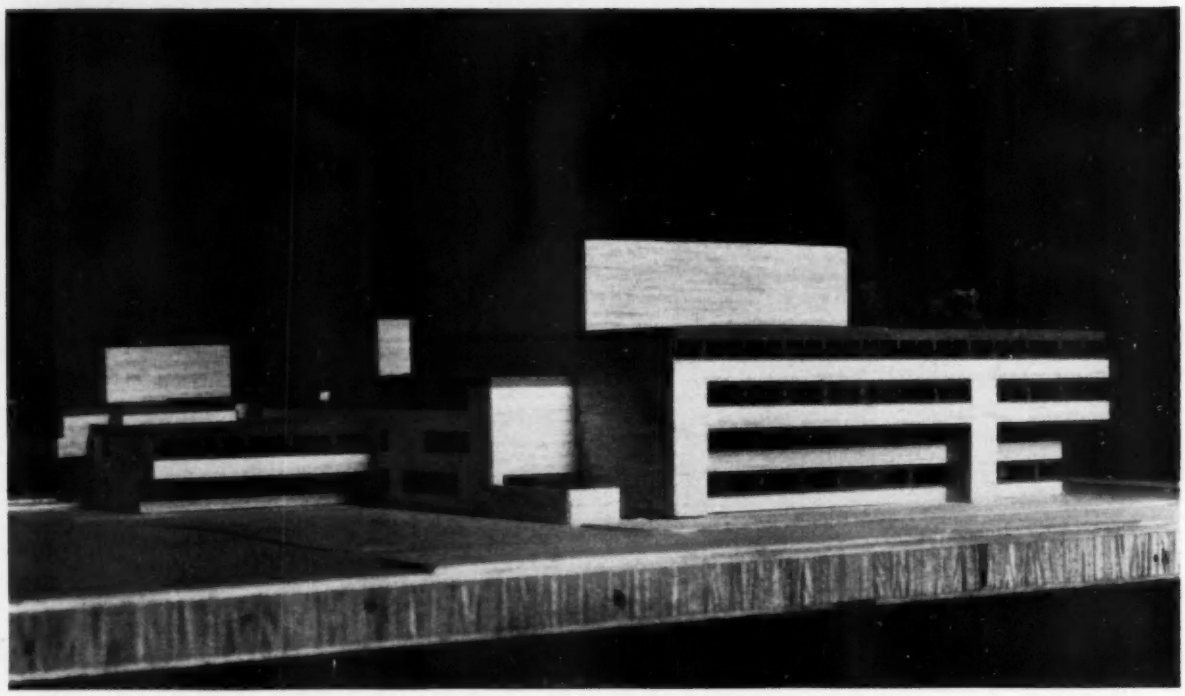
Q. *Organ Loft.*



New Libraries, Oxford

University's Proposal for three Buildings

SIR LESLIE MARTIN, architect, in association with COLIN ST. J. WILSON

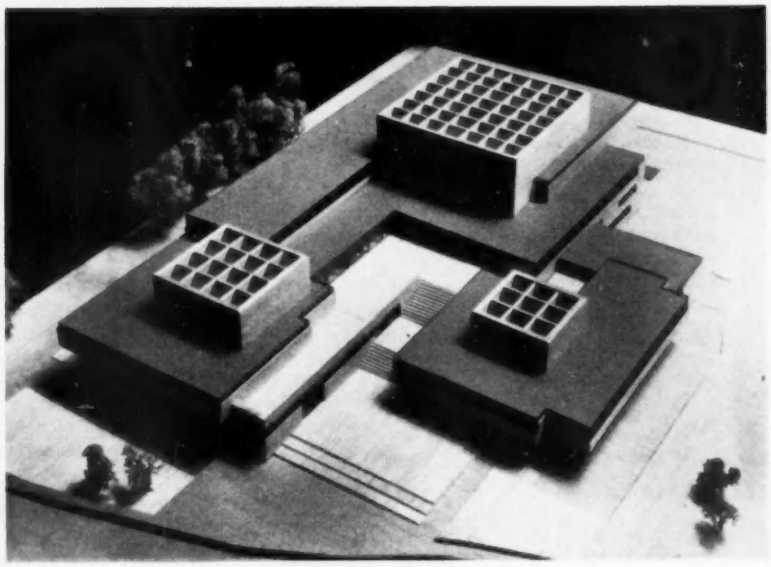


THE DESIGN which Sir Leslie Martin, in association with Mr. Colin St. J. Wilson, has prepared for the new buildings on the Manor-road site for Oxford University is now on exhibition in the Sheldonian Theatre and is shown in small-scale drawings and a model. The site will be occupied by the new Law Library, the English Faculty Library and the Institute of Statistics. Each institute is to some extent self-contained and the principal elements in each, though varying considerably in size, are the reading rooms and book stacks, with shared accommodation including lecture rooms, common rooms and cloakrooms.

The programme of accommodation must have presented the architects with a complex problem which has been very skilfully solved, making ingenious use of varying levels to tuck in the intricate accommodation but maintaining a clear plan pattern of circulation and achieving an interesting grouping in which the high rectangular blocks of the three reading rooms dominate the lower horizontal grouping of the surrounding smaller rooms. The reading rooms will rely entirely on top lighting, which it is understood has not yet been designed in detail.

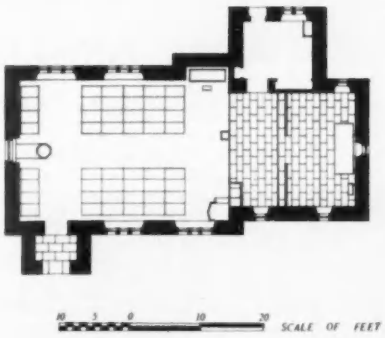
The character of the design follows the most advanced mode, with strongly modelled emphasis given by overhanging upper floors (at the expense of the natural lighting of the lower floors), walls in pale grey bricks, windows in continuous bands with black anodised aluminium mullions and lintels, and deep flush fascias also in black anodised aluminium. The immediate effect promises to be both crisp and vigorous.

While applauding the cleverness of Sir Leslie Martin and his associate, it is permissible to wonder whether buildings so highly integrated and consequently so difficult to alter or extend for future requirements, are wise for University purposes; but this factor has not, presumably, been overlooked. DAVID BOOTH.



Church in Gloucestershire

STRATTON DAVIS & YATES, architects
ORCHARD & PEER, general contractors



the whole exterior is finished in Cotswold stone. Below, interior towards the east window

THE CHURCH OF ST. MARY was built to replace a temporary building in Birdlip destroyed by fire. The walls, roof dressings and font are in Cotswold stone. The pews, furnishings and fittings are in English oak, and the floor in Missanda blocks. The stained glass east window representing the Virgin and Child, is by E. R. Payne. The church is heated by electricity.

sub-contractors & suppliers:

Flooring: Horsley Smith and Co. (Hayes) Ltd.; *electrical heating & lighting:* Stallard and Co.; *bell:* John Taylor and Co.; *ironmongery and cross:* A. N. Bucknell.

Terrace Housing, Upper Norwood

K. W. BLAND, ARIBA, Wates architectural department

WATES BUILT HOMES LTD., general contractors

entrances to houses and garages along the main frontage

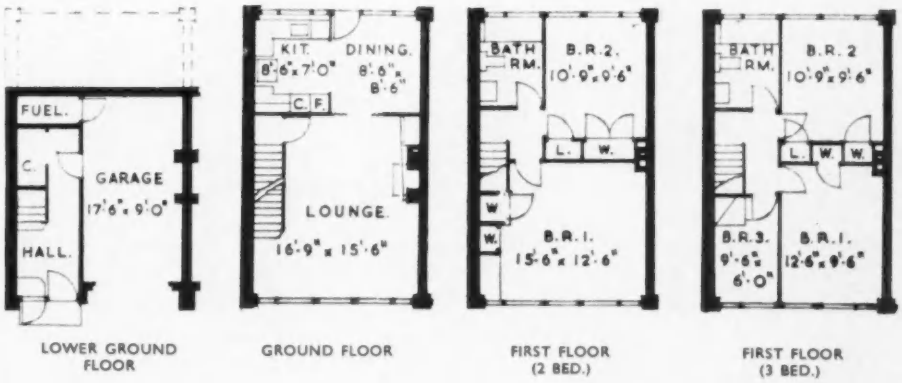
dining room and kitchen

THESE 3-storey terraced houses are part of a speculative development of 89 dwellings at Auckland Ridge, Upper Norwood. Each dwelling is 1,015 sq. ft. in area, with entrance hall, garage and fuel store occupying the lower floor, living rooms on the intermediate floor and bedrooms at upper floor level. A variation of plan to the upper storey only allows a choice of two or three bedrooms to the purchaser. The houses are sold freehold at £4,500 and £4,750 for end units. This price includes a built-in refrigerator, infra-red heater in the bathroom, and a F45 Halcyon gas-fired space heater installation of 17,000 BTU output with duct outlets to the lounge, dining room and two bedrooms. Flooring is thermoplastic tiles, and hardwood strip in the lounge and dining room. An overall landscape garden scheme is being carried out by Derek A. W. Lovejoy, MA, ARIBA, AMTPI, AILA.

lounge and dining are separated by space saver doors

sub-contractors & suppliers:

External joinery: H. & C. Janes Ltd.; *internal joinery:* J. R. Killick Ltd.; *bricks:* Hall & Co. Ltd., Richard Parton (Builders Merchants) Ltd., Standard Brick & Sand Co. Ltd., Eastwoods (Sales) Ltd.; *carcassing timber:* Davies Bros. (West Drayton) Ltd.; *kitchen units:* E. & H. Grace Ltd.; *slating:* Eastwoods (Sales) Ltd., *plumbing:* K. Rollinson & Sons Ltd.; *Halcyon installation:* South Eastern Gas Board; *electrical installation:* A. & V. Electrics Ltd.; *glazing:* F. Bowman Glassworks Ltd.; *floor & wall tiling & 'space saver doors':* The Marley Tile Co. Ltd.; *plastering:* Greenslade Bros.; *textured ceilings:* Halford Jarvis & Co. Ltd.; *ceramic tiling:* Herbert J. Nutman Ltd.; *sanitaryware:* Alfred Goslett & Co. Ltd.; *doors:* Gliksten Doors Ltd.; *landscaping:* Knowles & Weller Ltd.



Floor plans, scale : 1 in. = 16 ft. The houses are built into a sloping hillside and part of the lower floor is below ground level. The plan is varied to provide choice of two or three bedrooms.

Commonwealth Architects' Conference

Common Professional Problems Discussed

AGREEMENT WAS REACHED by the conference of representatives of architectural societies in the British Commonwealth, which met at the Royal Institute of British Architects from September 19 to 23 to consider some of their common professional problems. The conference, which was exploratory in character, has invited architectural societies and institutes throughout the Commonwealth to consider the establishment of a permanent advisory and consultative conference to be held every few years.

One of the principal functions of the proposed Commonwealth body would be to form a Commonwealth education committee to prepare the way for reciprocal recognition of architectural qualifications. The conference also discussed a wide range of other matters including the assistance to be given to developing countries where there is a shortage of architects and of facilities for academic teaching. The recommendations of the conference will now be referred back for further study by the Commonwealth societies and institutes. If they accept the recommendation to establish permanent consultative and advisory machinery a first conference will be held in London, probably in September, 1962.

The conference was attended by 21 representatives or members of architectural societies in 15 countries. Professor Sir William Holford, President of the RIBA, was the chairman and Mr. N. L. Hanson (Institute of South African Architects) was the vice-chairman. The other members of the conference were:

Kamal K. Anand (Indian Institute of Architects); C. H. R. Bailey (Federation of Malaya Society of Architects); G. Bradley (Institute of Northern Rhodesian Architects); A. Chitty (United Kingdom); G. C. Dovey (Hong Kong Society of Architects); Nelson Foley (Jamaican Society of Architects); E. Maxwell Fry (United Kingdom); W. T. Haslam (Royal Australian Institute of Architects); O. Koenigsberger (Indian Institute of Architects); Professor Fred Lasserre (Royal Architectural Institute of Canada); Alister MacDonald (United Kingdom); Professor Robert H. Matthew (United Kingdom); Edward D. Mills (United Kingdom); J. R. H. Thurston (Ghana Society of Architects); R. H. Uren (New Zealand Institute of Architects); W. Whitfield (Institute of Architects in Pakistan); J. A. R. Wilson (Institute of Southern Rhodesian Architects); W. W. Wood (Institute of South West African Architects); and E. J. Young (Society of Professional Architects in Nigeria).

Summary of Points of Agreement

The following is a summary of the points on which the Conference reached agreement:

(1) It was recognised by the Conference that its status was at this stage provisional and exploratory and that its recommendations could not commit the constituent allied Societies Overseas or in the UK. Nevertheless, there was a unanimous opinion that it would be valuable

(a) to outline the agenda for a permanent conference, if it were eventually decided to establish it,

(b) to record the measure of agreement reached in this preliminary conference on certain issues of principle and practice affecting all Commonwealth Societies, and to discuss the relationships that seemed likely to develop between a Commonwealth Conference, the International Union of Architects, the Commonwealth Conference on Education (meeting in India in 1962) and a number of study groups set up or proposed in this general field.

(2) Organisation and Constitution

It was agreed:

(a) That the Commonwealth Societies should be invited to consider setting up a permanent Commonwealth body which should take the form of a conference, meeting every few years.

(b) That such a body should be essentially advisory and consultative although, within it, the educational arm as outlined in (4) (i) below might have a somewhat more formal function.

(c) That, assuming general agreement, a Preparatory Conference should be held in London, with the RIBA as the host society, in September, 1962; and those invited to the current one should be invited then also, each society to send one representative, with a larger representation from the host country.

(d) That it is desirable and practicable to institute a common fund for this purpose, and that the RIBA should immediately take the initiative in formulating proposals for consideration by Overseas Societies.

(3) Registration

It was agreed:

(a) That reciprocal recognition of qualifications for registration is a desirable end.

(b) That where, in countries having registration, a single nation-wide Registration Act cannot apply, attempts should be made to achieve uniformity as between the separate Acts administered by individual states and provinces; at the least, reciprocity in accepting each others' registrants.

(c) That, since not all Registration Acts operate equally satisfactorily, a model set of clauses should be drafted for the guidance of developing countries seeking to establish Registration; these might include an acceptable definition of 'architect' possibly based on the IUA's Charter on the rights and duties of an architect.

(d) That an advisory body on registration should be established as part of the Commonwealth Conference proposed above, which would address itself initially to the preparation of this model set of clauses.

(e) That, the ultimate objective being complete reciprocity of registration throughout the Commonwealth, the only desirable criterion should be that of educational standards; and that while statutory bodies might impose further requirements such as citizenship or minimum period of residence or of local experience, professional bodies are not primarily concerned with such conditions.

(f) That where further conditions are imposed, the device of 'association' with an architect already registered in the country concerned is among the alternatives to be considered.

(g) That protection of the *title* of architect is an essential step and in the older countries generally exists already.

(4) Education

In general it was agreed:

(a) That a Commonwealth Educational Committee of suitable form is needed for domestic discussion, to influence Governments to take action where appropriate, and, on a basis of mutual trust, to agree upon and maintain those standards of examination and education in schools of architecture throughout the Commonwealth which ought to be recognised by all the registering bodies concerned as being equally acceptable to all of them; and, finally, to influence such registering bodies to accept and recognise these qualifications.

(b) That meanwhile, a good deal of preparatory work is needed by existing Boards of Architectural Education in the comparison of qualifications from schools of architecture in countries inside and outside the Commonwealth.

(c) That one of the functions of the Commonwealth Conference should be to study methods of improving the flow of technical information between Commonwealth countries.

In the case of developing countries, it was agreed:

(d) That much has to be done to educate both government and public to grasp what architecture is about and what an architect is.

(e) That in each country much work needs to be done on e.g. aptitude studies, collecting and interpreting data about the structure of the profession, the requirements of practice, the likely volume and kind of building work required, etc., and studies to this end should be inaugurated.

(f) That in each country a systematic appraisal of manpower needs, government sponsored, would shed light on how many architects and/or those with kindred skills need to be trained.

(g) That for the most part facilities for academic teaching are acutely inadequate both in number and quality.

(h) That a great influx of experienced teachers from established countries should be encouraged.

(i) That it is unrealistic to transplant RIBA type examination systems,

standards and curricula and expect them to take root at once in the often quite unsuitable soil of newly emerging nations; but that since some training, however modest, is better than none, courses should be started without delay.

(j) That, putting aside until later all questions of registration, reciprocity, recognition and even an identifiable 'qualification to practise,' these courses should aim broadly at an intermediate standard of architectural training.

(k) That the danger is realised of thereby diluting the profession with 'sub-professionals' just when the general wish is to raise standards, and that therefore —if necessary later rather than sooner— it may be wise to give point and purpose to such courses by gearing them into a full curriculum leading ultimately to RIBA Final examination or equivalent.

It was agreed that to ensure systematic preparation for the 1962 Conference, the present secretarial arrangements within the RIBA to deal with Commonwealth matters be continued. This small secretariat would maintain contact with the Societies overseas, which may in turn submit views and matters for consideration by the conference.

News of the Week

Rome Scholarship Not Awarded

THE FACULTY OF ARCHITECTURE of the British School at Rome regret that of the eight designs submitted in the competition for the Rome Scholarship in Architecture 1960, 'none reaches a standard such as would justify the award of a Rome Scholarship,' the highest studentship award of the architectural profession.

'The designs are of varying merit in planning and in visual expression of the subject, but the basic fault lies in the lack of careful analysis of the subject set [a University Library] and of research into its requirements, the consequence of which is failure in logical and suitable planning.

'Few of the designs show appreciation of quality in presentation, nor in the main have they sufficient clarity to make the full intention of the designer easily apparent. Simple rendering only was asked for; this requirement should not only have saved time and labour in presentation, but should have made for clarity and for concise statement.'

Wine and Cheese on the 17th

WHAT MIGHT BE CALLED an architectural topping-out party was given by Mr. Frederick MacManus and his Associates to mark the completion of the 17-storey block of flats which they have designed as part of the development of St. Pancras' borough council's Regent's Park housing area. Held on the top floor (52 seconds by lift) the party attracted nearly a hundred people including the Mayor and chairman of the borough housing committee (who, no doubt were glad for a

'The Combe,' 17-storey housing for St. Pancras. Frederick MacManus and Associates, architects

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(a) That the Commonwealth Societies should be invited to consider setting up a permanent Commonwealth body which should take the form of a conference, meeting every few years.

(b) That such a body should be essentially advisory and consultative although, within it, the educational arm as outlined in (4) (i) below might have a somewhat more formal function.

(c) That, assuming general agreement, a Preparatory Conference should be held in London, with the RIBA as the host society, in September, 1962; and those invited to the current one should be invited then also, each society to send one representative, with a larger representation from the host country.

(d) That it is desirable and practicable to institute a common fund for this purpose, and that the RIBA should immediately take the initiative in formulating proposals for consideration by Overseas Societies.

(3) Registration

It was agreed:

(a) That reciprocal recognition of qualifications for registration is a desirable end.

(b) That where, in countries having registration, a single nation-wide Registration Act cannot apply, attempts should be made to achieve uniformity as between the separate Acts administered by individual states and provinces; at the least, reciprocity in accepting each others' registrants.

(c) That, since not all Registration Acts operate equally satisfactorily, a model set of clauses should be drafted for the guidance of developing countries seeking to establish Registration; these might include an acceptable definition of 'architect' possibly based on the IUA's Charter on the rights and duties of an architect.

(d) That an advisory body on registration should be established as part of the Commonwealth Conference proposed above, which would address itself initially to the preparation of this model set of clauses.

(e) That, the ultimate objective being complete reciprocity of registration throughout the Commonwealth, the only desirable criterion should be that of educational standards; and that while statutory bodies might impose further requirements such as citizenship or minimum period of residence or of local experience, professional bodies are not primarily concerned with such conditions.

(f) That where further conditions are imposed, the device of 'association' with an architect already registered in the country concerned is among the alternatives to be considered.

(g) That protection of the *title* of architect is an essential step and in the older countries generally exists already.

(4) Education

In general it was agreed:

(a) That a Commonwealth Educational Committee of suitable form is needed for domestic discussion, to influence Governments to take action where appropriate, and, on a basis of mutual trust, to agree upon and maintain those standards of examination and education in schools of architecture throughout the Commonwealth which ought to be recognised by all the registering bodies concerned as being equally acceptable to all of them; and, finally, to influence such registering bodies to accept and recognise these qualifications.

(b) That meanwhile, a good deal of preparatory work is needed by existing Boards of Architectural Education in the comparison of qualifications from schools of architecture in countries inside and outside the Commonwealth.

(c) That one of the functions of the Commonwealth Conference should be to study methods of improving the flow of technical information between Commonwealth countries.

In the case of developing countries, it was agreed:

(d) That much has to be done to educate both government and public to grasp what architecture is about and what an architect is.

(e) That in each country much work needs to be done on e.g. aptitude studies, collecting and interpreting data about the structure of the profession, the requirements of practice, the likely volume and kind of building work required, etc., and studies to this end should be inaugurated.

(f) That in each country a systematic appraisal of manpower needs, government sponsored, would shed light on how many architects and/or those with kindred skills need to be trained.

(g) That for the most part facilities for academic teaching are acutely inadequate both in number and quality.

(h) That a great influx of experienced teachers from established countries should be encouraged.

(i) That it is unrealistic to transplant RIBA type examination systems,

standards and curricula and expect them to take root at once in the often quite unsuitable soil of newly emerging nations; but that since some training, however modest, is better than none, courses should be started without delay.

(j) That, putting aside until later all questions of registration, reciprocity, recognition and even an identifiable 'qualification to practise,' these courses should aim broadly at an intermediate standard of architectural training.

(k) That the danger is realised of thereby diluting the profession with 'sub-professionals' just when the general wish is to raise standards, and that therefore —if necessary later rather than sooner— it may be wise to give point and purpose to such courses by gearing them into a full curriculum leading ultimately to RIBA Final examination or equivalent.

It was agreed that to ensure systematic preparation for the 1962 Conference, the present secretarial arrangements within the RIBA to deal with Commonwealth matters be continued. This small secretariat would maintain contact with the Societies overseas, which may in turn submit views and matters for consideration by the conference.

News of the Week

Rome Scholarship Not Awarded

THE FACULTY OF ARCHITECTURE of the British School at Rome regret that of the eight designs submitted in the competition for the Rome Scholarship in Architecture 1960, 'none reaches a standard such as would justify the award of a Rome Scholarship,' the highest studentship award of the architectural profession.

'The designs are of varying merit in planning and in visual expression of the subject, but the basic fault lies in the lack of careful analysis of the subject set [a University Library] and of research into its requirements, the consequence of which is failure in logical and suitable planning.

'Few of the designs show appreciation of quality in presentation, nor in the main have they sufficient clarity to make the full intention of the designer easily apparent. Simple rendering only was asked for; this requirement should not only have saved time and labour in presentation, but should have made for clarity and for concise statement.'

Wine and Cheese on the 17th

WHAT MIGHT BE CALLED an architectural topping-out party was given by Mr. Frederick MacManus and his Associates to mark the completion of the 17-storey block of flats which they have designed as part of the development of St. Pancras' borough council's Regent's Park housing area. Held on the top floor (52 seconds by lift) the party attracted nearly a hundred people including the Mayor and chairman of the borough housing committee (who, no doubt were glad for a

'The Combe,' 17-storey housing for St. Pancras. Frederick MacManus and Associates, architects

change to find themselves in the midst of some friendly publicity), the Housing Manager and other friends of the borough or of the architects.

A photograph on page 657 shows the block (from the upper floors of which an unparalleled view of central London is seen) rising from a number of closely grouped low terraces. When landscaping is complete, a series of varied and linked places and squares should provide much visual interest. The whole area is treated as a pedestrian precinct excluding all but service traffic.

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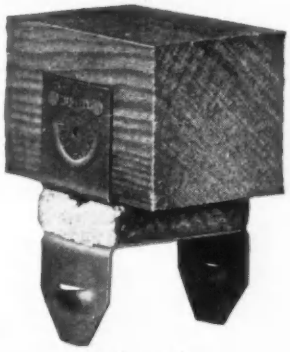

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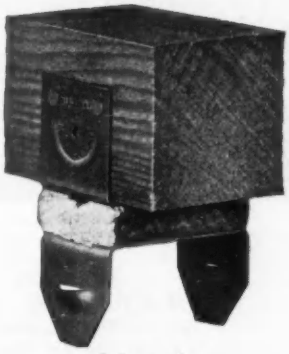

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MUSEUM 3705

More Everyday Things

BY ARTHUR KENYON, CBE, FRIBA

10. Timber

I RECENTLY SAW—admittedly in a foreign country—a large area of flooring laid in 4 in. widths of straight grained pine in 12 ft. lengths without a blemish. I could not see a single knot in the whole flooring, nor an open joint, and it shone with polish. I have seen nothing to equal it in this country since the war. One could easily guess its source. Other floors I looked at were full of knots and again one could make a shrewd guess at the country these came from.

Before the war it was possible to select your own timber and it was no uncommon thing to take a journey to the docks in London and select your parcel from the stacks. Markings showing their origin were helpful but not by any means sufficient to satisfy a meticulous customer. Many are the times I have selected timber with the builder in this way, just as we used to select a whole stack of bricks at the brickworks rather than rely on samples from a builder's merchant. It was not only flooring timber which we selected in this way, but carcassing timber also and panelling in particular.

Although most of our buildings today are of reinforced concrete construction, timber finishes still play an important role even in external cladding. Many tropical timbers have come into use, and beautiful and hard as they appear to be, they play the most astonishing tricks when they find themselves in the unfamiliar surroundings of a building in this country.

Do we still send buyers out to the forests to buy timber on the spot? I have met these men in the forests of Sweden and Finland in the past. Their knowledge is prodigious and I find their talk quite fascinating. Timber growers, like farmers, are delightful people to meet. They seem to know by instinct what is good and what is bad. There are no text books to teach the intimate knowledge of timber which comes from long association with the forests, with felling and rafting down the rivers, with sawing and stacking.

With all the beautiful hardwoods we are now getting from tropical countries, I hope we shall not ignore the simple birch and pine trees of the Northern climes. Our own forests were ravaged in the middle ages for our ships, but when English oak can be found, well seasoned, there is no more beautiful wood anywhere.

Timber is an absorbing study and as a craftsman's material there is nothing to compare with it for reward of skill. I think most architects will agree with me that there is no other material which goes into a building for which one can feel the same affection. Good timber, well seasoned and well chosen, has character and individuality not to be found in manufactured and synthetic materials, and one comes to rely on it for sympathetic response in the shaping of a building. In the same way, bad timber, unseasoned and indifferently selected for its purpose, can perform such knavish tricks as to drive one to fury. Altogether a lovable material and I for one would never build without it.

Information for the Architect

The Need for More Development and Research

AT THE BRISTOL BUILDING CENTRE on Wednesday, September 28, MR. DARGAN BULLIVANT, ARIBA, AILA, gave a lecture on 'Information for the Architect—the Next Step.' Describing the present situation, he said: 'There is a paradox of too much and too little—too much information of inferior quality, badly presented, and too little useful literature; the problem therefore is to improve the quality of what is already available, and to increase the quantity of good information. Productivity depends on the amount of knowledge available, and in building a wide field must be covered, yet it is a very badly documented profession.

'Surveying the present appalling mess,' he continued, 'it is difficult to feel any enthusiasm, but in ten years' time it is likely that great progress will have been made in the organisation and dissemination of building information. What is being done now is merely the groundwork. The main requirement is usable information ready for us to use, but in many cases the original research worker who produces the information has lost touch with the needs of the user, and so a problem of communication arises.'

There were three aspects of information to be examined, said the speaker, and the first was its production. It was encouraging to see the increasing number of development groups engaged in study, research and practical building and testing; in 1947 there was one; to-day there were at least nine in existence. The universities, too, might offer opportunities for the study of architecture and building. Within the next ten years there would be considerable expansion, to provide for almost double the present number of suitable applicants, and it might be possible for architectural courses to be transferred from the technical colleges to the universities. There might also be as many as eight or ten new universities, which could have a place for architectural departments. Post graduate architectural departments had already been set up at Edinburgh by Professor Robert Matthew, and at London by Professor Llewelyn Davies.

Standardised Arrangement

After the production of information, continued Mr. Bullivant, the next point to be considered was its transmission; and in the transmission of information it was vitally important that there should be standardisation—first, of the paper size. It was also desirable that there should be standardisation of the arrangement of subjects; some form of classification. Following its acceptance by the International Council for Building, proposals for a standard classification had been adopted by the RIBA and the Building Research Station, and an authoritative Building Filing Manual was expected to be published by the end of the year.

In considering the transmission of information, Mr. Bullivant said: 'There should be some rationalisation of the channels through which it flows to the user. At present there is a multiplicity of channels, and many of them are not good! As a result of this, the architect finds the fitting together of the mosaic of information an almost impossible task. Britain is particularly unfortunate in not having established an information service after the war, when there was the opportunity and the need for it. Smaller countries have such organisations; Finland, with only eight hundred architects, has a very comprehensive information service, yet here no such service exists.

Turning to the use of information the speaker said that standardisation in transmission would open up the way to more efficient office filing systems, and we might expect new developments in filing equipment within the next few years. There was now on the market the BTD filing system, and a new prong file had recently been imported from Sweden. The adoption of a standard classification and filing system would mean that information could be kept until it was required, and produced without delay.

Even more important than the form of the information, however, was its content. What information was required, and did the needs of the architects differ from those of the builder and the quantity surveyor? Had there to be separate information services, or one service to answer the needs of all three users? And how could information be arranged so that unnecessary material, and the duplication of effort, could be avoided?

Presentation of Information

Mr. Bullivant provided the answers to these questions by showing a number of slides which illustrated the designing and the presentation information to cover the needs of various users, at the same time making it possible to select the information required by any particular group so that it could be distributed separately. The example shown on the slides was a product catalogue, but the same approach could be applied to the publication of the results of research. Emphasis was laid on the need to design publications, and to produce a first-class layout, which must be made clear to the printer by a special working drawing. In the design of the pilot project shown as an example, the steps taken were, first, to analyse all the information required about the product, and then to divide it into sections related to the way in which it would be used. The information was then presented as follows:

(i) To recognise the product—a data sheet.

(ii) How to apply the product to building—working drawings.

(iii) How to specify the product and workmanship required, together with comparative costs of alternative specifications.

(iv) How to instruct men on the site to handle and fix the product.

(v) To give ready reference to all parts and accessories which may be required.

With such an arrangement it was possible to compile, from the stock of individual sheets, manuals which would meet the needs of different users as closely as possible. Furthermore, the abbreviated information required for initial selection and comparison could be made up into ready reference manuals which would reduce the amount of paper work for the users.

If information was presented in this way, concluded the speaker, it should be possible to meet the needs not only of the architect, the builder and the quantity surveyor, but also the builders' merchant, the men on the job, and the firm's own internal staff, who should all be considered when any improved documentation was being prepared.

Competitions Open

* *The date in italics refers to the issue of* The Builder *in which fuller details appeared.*

HOSPITAL AT BOSTON, LINCS.—Two-stage competition open to architects resident in the UK and Eire for a general hospital comprising 474 beds and all ancillary departments. Assessor: Mr. John Murray Easton, FRIBA. Premiums: £500 to each of six architects selected from first stage to take part in final. £1,500 additionally to winner. Secretary, Sheffield Regional Hospital Board, Fulwood House, Old Fulwood-rd., Sheffield, 10, to whom second stage designs by January 31. *March 18.*

BUILDING EXHIBITION STAND.—Competition organised by the National Federation of Clay Industries who invite registered architects, students RIBA and students in the final year at recognised schools to submit designs for an exhibition stand to be erected at the Building Exhibition in November, 1961. Assessor is Mr. C. C. Handisyde, ARIBA, and awards of £150, £50 and £25 will be made. Conditions from the General Secretary, National Federation of Clay Industries, 30 Gordon-street, London, WC1, to whom designs must be submitted by October 22. *July 8.*

NEATH CIVIC BUILDINGS.—Competition open to architects on ARCUK register for new civic buildings at Fairfield, Neath, for Neath BC and RDC. Date for the receipt of entries is October 29. The assessor is Sir Percy Thomas; premiums of £1,000, £500 and £300 offered. Mr. D. King Davies, Town Clerk Town Hall, Neath, or Mr. I. H. K. Thorne, Clerk of the Council, Orchard-cbrs., Neath. *February 19.*

REPLANNING OF TUNIS.—International competition for the development of the town of Tunis. Registration date was February 1 and the final closing date for the receipt of entries is in October. The assessors are: The Secretary of State; the Chief Engineer of Bridges and Roads; the Chief Engineer of Technical Services; M. Plinio Marconi (Rome), M. Antonio Perpina (Spain) and M. Pierre Vago (Paris). Mr. E. Maxwell Fry, FRIBA (London), and Hr. W. Hebebrand (Hamburg) are alternate assessors. Premiums of 5,000, 2,500, 1,500 and two of 500 dinars are offered. *December 4.*

DUNBARTONSHIRE COUNCIL OFFICES.—Two-stage competition open to architects practising or resident in Great Britain or Northern Ireland for County Council Offices at Crosslet, Dumbarton. Assessors: Messrs. F. R. Wylie, J. H. Napper and James Mottram. Premiums: £400 to each of six architects selected from first stage to take part in final. £1,500 additionally to winner. Conditions on deposit of £2 2s. from County Clerk, County-bldgs., Dumbarton, to whom first stage designs by July 16. Final designs by October 29. *Feb. 26.*

HOUSING AT HARLOW NEW TOWN.—Competition arranged by the Harlow Development Corporation open to architects on ARCUK register for 270 houses and flats proposed on a site in Passmore's Neighbourhood in the New Town. Assessors are Mr. H. T. Cadbury-Brown, FRIBA, and Mr. Victor Hammett, ARIBA. Premiums of £1,000, £750 and £500 are offered. Conditions, site plans, etc., on deposit of £2 2s. from the General Manager, Harlow Development Corporation, Terlings, Harlow, Essex. Last day for questions is September 1, for submission of designs, March 6, 1961. *July 8.*

NEW LIBRARY BUILDING, TRINITY COLLEGE, DUBLIN.—International competition open to all architects authorised to practise in their own country, and who are members of a recognised institute or society, for a new library building at Trinity College in the University of Dublin. The jury of award comprises: the Rt. Hon. the Earl of Rosse, Sr. Franco Albini, of Italy, Sir Hugh Casson, MA, FRIBA, Mr. Raymond McGrath, of Dublin, and Mr. K. DeWitt Metcalf of Harvard University. Premiums: £1,500, £1,000 and £750. Registration closes on August 31 and the last date for the receipt of questions is September 30. Entries by 5 p.m. on March 21, 1961. Conditions on deposit of £5 from the Competition Registrar, Trinity College, Dublin. *June 24.*

COUNTY OFFICES, ROXBURGH.—Competition sponsored by the Roxburgh County Council and open to registered architects practising and resident in Scotland, for new County Offices at Newtown St. Boswells at estimated cost of £225,000. Assessor is Mr. W. H. Kininmonth, RSA, FRIBA, FRIAS; premiums are 500, 300 and 200 guineas; last date for submission of designs is March 31, 1961; and the final date for receipt of questions is October 31. Conditions and General Instructions from the County Clerk, County Offices, Newtown St. Boswells, Roxburgh, on receipt of returnable deposit of £2 2s. *September 23.*

Obituary

Professor C. Holliday; R. R. Prentice

Professor Clifford Holliday

THE DEATH is announced of Professor Clifford Holliday, FRIBA, Professor of Town and Country Planning in the University of Manchester since 1952. Previous to this he had been, from 1946-1952 Chief Architect and Planner to Stevenage Development Corporation. He was 62.

Born in 1897 and educated at Bradford Grammar School, Holliday studied architecture at Liverpool University. He graduated BArch with distinction, won the Holt Travelling Scholarship and took a Diploma in Civic Design.

With his appointment as civic adviser to the City of Jerusalem in 1922 began a connection with design and development in the Middle East that was to last 12 years. He set up in private practice as an architect and planner in 1927 and then served as adviser to the Government of Palestine. Between 1939 and 1946 he was successively consultant to the Government of Ceylon and to the Colonial Government, Gibraltar, and in 1946 he joined the Stevenage Development Corporation.

His buildings included St. Andrew's Church, Jerusalem, three banks for Barclays (D.C. and O.) in Palestine, and a number of schools, offices, and industrial buildings. With the late Sir Patrick Abercrombie he planned a new site and buildings for the University of Ceylon.

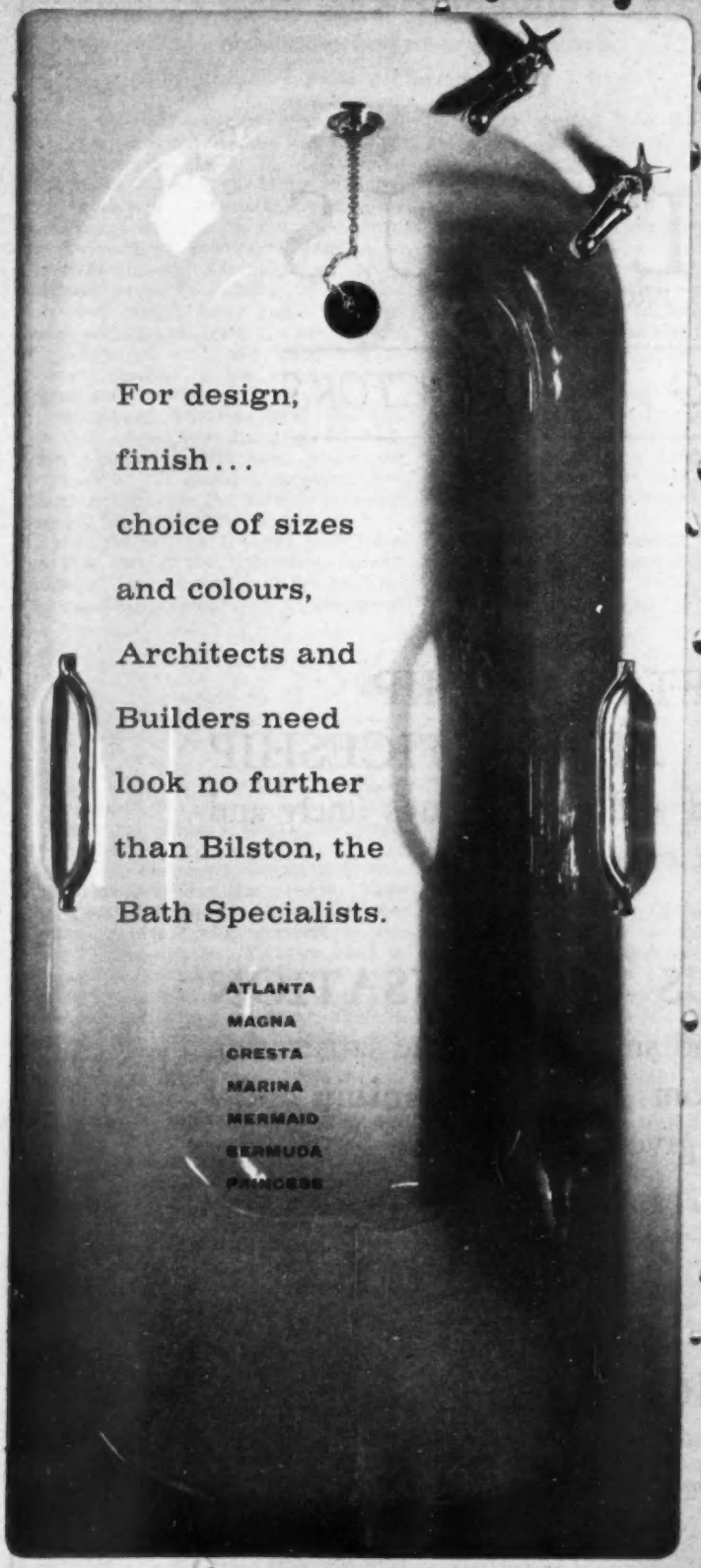
R. R. Prentice, FRIBA

THE DEATH TOOK PLACE on September 28 of Mr. Robert Russell Prentice, FRIBA.

Born in Fife, Scotland, in 1883, Mr. Prentice was educated at Highgate School and served articles with Sir George Washington Browne, RSA, in Edinburgh, following which he studied for two years at the Ecôle des Beaux Arts in Paris. In 1907 he joined the staff of Messrs. Mewès and Davis in London and in 1910 went out to Buenos Aires where he spent the next four years with M. L. Fauré Dujarric, the last three in partnership.

Prentice returned to this country at the outbreak of the 1914-18 war, serving as technical officer in the RFC and RAF until 1919, when he commenced in practice on his own in Buenos Aires, latterly taking into partnership A. Spandi. He retired in 1952 to Eastbourne.

His principal buildings in South America included the British Embassy, the Ministry of Foreign Affairs, both in Rio de Janeiro, office buildings for the Sud-America Insurance Company in Buenos Aires and Rio de Janeiro; the Central Cordoba railway station, BA.



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Church Architecture

Stimulating Conference at Liverpool

From a Correspondent

OVER A HUNDRED AND FIFTY architects and clergy of all denominations met together from September 19 to 21 at Liverpool University to discuss the future of church architecture in this country. Opening the conference arranged by the Department of Extra-Mural Studies, PROFESSOR R. GARDNER-MEDWIN, BARCH, FRIBA, MTPI, commented on the mistaken ideas which prevailed among many architects when faced with the designing of a new church. Failure to realise the true function of the church resulted in the worst kind of 'architects' architecture' he said.

MR. ROBERT MAGUIRE, ARIBA, the first speaker, whose new church of St. Paul, Bow Common, offers some interesting answers to the planning problems, outlined the nature of the brief the architect needed from his church patron.

THE REVD. W. E. A. LOCKETT, Staff Tutor in Fine Art at the University, showed slides of a wide selection of French, German and Swiss churches of all denominations and showed how the Liturgical Movement had profoundly affected church architecture on the continent. THE REVD. A. H. COURATIN, Principal of St. Stephens House, Oxford, gave an outstanding paper on the functional elements of the liturgy which governed the planning, and MISS JUDITH SCOTT, Secretary for the Central Council for the Care of Churches, emphasised the need for local research into population distribution and communications before even a site was selected.

The conference was of particular interest at this time in Liverpool following the announcement of the prize-winning designs for the new Roman Catholic Cathedral. Visits were paid to the site of the new cathedral, where the large circular building is soon to rise, and also to the Anglican Cathedral, now two-thirds completed, and which has a temporary central altar more suited to modern liturgical practice.

On the final morning a Roman Catholic priest and an architect discussed the relationship between architect and client in working out the architect's liturgical brief. The chairman for this was the Bishop of Blackburn, an arrangement which was not only typical of the close co-operation of all denominations achieved throughout the conference, but also illustrated how nearly all have very similar problems in building new churches in an age when the pattern of worship has undergone a revolution.

The final lecture 'New Church Architecture and the Future,' by MR. DEWI PRYS THOMAS, BARCH, ARIBA, AMTPI, who takes up duties this term as Head of the Welsh School of Architecture, was a fitting climax to an outstanding conference. Those present strongly pressed for some action to be taken in the North of England in setting up a centre where these problems could be studied further and where architects and clergy of all denominations might find a common meeting ground.

Books

Buckinghamshire

BUCKINGHAMSHIRE (Buildings of England Series), by Nikolaus Pevsner. Pp. 341. Illustrated. (Penguin Books Ltd.) Price 10s. 6d.

THIS is the nineteenth volume in Professor Pevsner's excellent series, 'The Buildings of England.' He states in his Foreword that it 'was prepared by Dr. Mark Girouard'; but his own hand is perceptible throughout, and his name appears as author on the title-page. He acknowledges help from many scholarly persons, and indebtedness to several published authorities; yet claims, with justifiable pride, that 'I have myself seen everything that I describe.' Not many authors of topographical books could say the same!

The present volume, like its predecessors in the series, differs from ordinary guidebooks in its catholicity of outlook. While it would not be fair to say that everything is fish that comes into his net, it is true that he writes with an equal lack of prejudice about prehistoric monuments, the work of Sir Gilbert Scott, and that of the latest exponents of 'modernismus.' Moreover, he never hesitates to offer his own personal opinion of each building, whether it be a famous masterpiece or an obscure Baptist chapel.

Buckinghamshire is not a large county, but it contains a great variety of architectural interest, from Saxon times onwards. Architects whose work is represented include Wren, Gibbs, Kent, Vanbrugh, Adam and Soane. Its finest buildings are, perhaps, Stowe and Eton College—both of which are treated in detail, with useful key-plans. Within its borders are also two overpowering millionaires' homes — Mentmore House (1852-4) and Waddesdon Manor (1874-89). Other notable mansions are Cliveden, Gayhurst House, Hartwell House, Chicheley Hall, Wotton House, Middle Claydon House, Shardeloes and West Wycombe Park.

The photographic illustrations are clear and well-chosen, and the text is as readable as it is learned and thorough. Buckinghamshire has already been covered by two massive volumes of the Royal Commission on Historical Monuments. These, however, ring down the curtain at 1714, thus excluding a large proportion of the buildings described by Dr. Pevsner, whose work is indispensable, as well as handy in size and modest in price.

M. S. B.

Books Received

**** Books noted in these columns may be obtained on application to the Book Dept., 'The Builder,' 4 Catherine-street, Aldwych, WC2. Cash (to include postage on books to the value of 10s., 9d.; over 10s., 1s. 6d.) should accompany the order.*

TECHNICAL ILLUSTRATING. By A. Edward Harvey. (London: B. T. Batsford Ltd.) Price 21s.

STANDARD METHOD OF MEASUREMENT ILLUSTRATED. By G. Chrystal-Smith. (London: George Newnes Ltd.) Price 35s.

COMMERCIAL PAINTING. By J. F. J. Tubb and A. P. Hoad. (London: Macdonald & Co. (Publishers) Ltd.) Price 21s.

WATERMILLS WITH HORIZONTAL WHEELS. By Paul N. Wilson. (Kendal: Titus Wilson & Son Ltd.) Price 6s.

Brighton Film Studio Proposal

Scheme Rejected by Minister

MR. HENRY BROOKE, the Minister of Housing and Local Government, has refused an application to develop land at Sweet Hill, Brighton, as a film studio. He considers that, 'the use of this large area of downland in the way proposed for outdoor filming, involving large numbers of people, would be inappropriate to this area of great landscape value.' The application for outline planning permission for the proposal was made in November, 1959, by Sweet Hill Studios Ltd. The Minister directed that the application be referred to him for decision and a public inquiry was held on May 11.

Inspector's Recommendation

The inspector recommended that consent in principle be granted to the proposal, excluding a proposed heliport, subject to the condition that the permanent buildings be confined to a hollow and sited at such a level as to be below the immediately adjoining land.

The letter giving the Minister's decision says, 'The Minister has had regard to the inspector's views and recommendation. He considers however that, notwithstanding that the permanent buildings would not be obvious from most points in the immediate vicinity (though not from higher points further away to the east), the use of this large area of downland in the way proposed for outdoor filming, involving large numbers of people, would be inappropriate to this area of great landscape value.'

The Minister noted that it was said that some additional employment would be brought to Brighton, but he did not consider that the benefits which might have accrued were sufficiently substantial. While, therefore, the project might be acceptable in a more suitable place, he was satisfied that planning permission ought not to be given in respect of the application site.

Man and Machine

The Operative in Relation to His Working Environment

IN HIS OPENING address on the DSIR conference 'Ergonomics in Industry,' held from September 27 to 29 at the Connaught Rooms in London, THE RT. HON. VISCOUNT HAILSHAM, QC, Lord President of the Council and Minister of Science, said he was vastly stimulated both by the introduction of the subject and of himself. He thought that there was probably something to be said for classical scholars still existing in the world of science. 'It is a fact,' said Lord Hailsham, 'that when the scientist is hard put to it for a word which is not worn smooth and useless by popular usage, he almost invariably reverts to the classical scholar for his terminology.

'It is therefore clear,' he continued, 'that a classical scholar has much to say to the scientist, and when one looks at the applied scientist inventing words like drunkometer and breathaliser, one begins to know why we are still useful. Ergonomics, however, is a respectable word. It is derived, of course, from the Greek ergon, work, which gives it a respectable character to begin with, and nomos, law, and the ics is simply a re-arrangement of the first initial letters of the Council of Industrial and Scientific Research.'

'Ergonomics is, in fact, no new interest; it dates from the first world war when investigations were made into the health of munition workers, and it very soon be ·me involved in deeper questions. A part, at any rate, of the work which you will see and discuss is based on experience in the armed forces and in the defence services in the second world war and thereafter.

'The result is the more serious study for which we are called together; it is based upon the simple proposition that when you are dealing with industrial production the machine is not enough because a co-efficient in the equation is the man. The man is as important as the machine, and the scientist has as much to tell us about the man as he has to tell us about the machine. The man and the machine in relation to one another form the subject matter of ergonomics. The proposition is that it is not enough to design a machine which will do the job; it is necessary at the design stage, and not later, to study the man in relation to the machine and to see that a design, in which the physical characteristics and limitations of both are adequately taken care of, emerges. When you get to the production stage, it is too late to apply principles.

'That is very obvious in extreme cases. It is very obvious if you put a man into space that in the design of the vehicle and instruments to be used you must have a vehicle and instruments which will be capable of being used by a man under those very special conditions. It is not so obvious, but is nonetheless true, that when you are dealing with any other thing which a man uses—a dial, a knob, a lathe or even an instrument to monitor—the limiting factor is often the man and not the machine which you have devised. Right at the design stage it is necessary to study the physiology, the psychology and the anatomy of man as well as the comparable characteristics of the engineering product.'

The fact was, said Lord Hailsham, that ergonomics was in its infancy. It was still broadly true that in many factories, perhaps most factories, the principal ergonomic study which was carried into effect was time-and-motion study based on formulae which were, perhaps, fifty years' old. These had not always been popular; they might have been less popular than they deserved. Possibly their unpopularity had been due to the fact that they were not radical and comprehensive enough. At any rate, some of the formulae were no longer contemporary, and the time might have come for studying the matter in a more deeply scientific way.

This study of ergonomics represented an attempt to get scientists and both sides of industry together in the study of man in relation to his working environment. It represented a combined approach by designers, engineers, physiologists, anatomists and experimental psychologists to problems such as the design of and the display and control of machines, and the effects of environmental conditions upon operatives' performance.

Those who were responsible for production knew a very great deal about these machines and were constantly looking for ways of improving performance, but because one cannot run a factory on machines alone the study of ergonomics had to come within the sphere as well. In practice, in recent years with the new machinery of today it was often the human operator who was the limiting factor, as he found that his complex and exacting tasks, the speed of the work or the unremitting vigilance required, imposed too great a strain or led to costly error.

'It is therefore increasingly necessary,' concluded the speaker, 'to consider the man and the machine together and to design a unit to match the limits of both. Quite a lot is already known about the limitations of each separately. The aid of ergonomics is to get the best out of both when they are working together.'

Finally Lord Hailsham wished the conference success and hoped that it would result in a greater co-operation in ergonomics between research and industry, in particular between the research councils and industry, and in industry between labour and management. He expressed the hope that that co-operation would prove just as beneficial as it had done in the physical sciences. This should, he said, lead to enhanced efficiency, higher productivity, a reduction in training time, greater safety, and better conditions.

A Guildford Shopfront

Architect and Council in Dispute

GUILDFORD'S Deputy Town Clerk, MR. JOHN LESLIE, agreed at a local inquiry on September 29, that planning powers could make a Guildford optician have a shop window in his High-street premises when he did not want to, but could not compel him to put anything in it. He was representing the Council at the hearing of an appeal by Mr. K. Harwood against the refusal by the Council to approve a new shop front—designed by Mr. N. C. B. Turner, the Guildford architect—for his premises at 77 High-street, Guildford. In place of a shop window, Mr. Turner had designed a 7 ft. textured wall with the name of the shop on it.

Mr. Leslie and Mr. Turner agreed that the dispute turned on whether or not the substitution of the wall for the window would constitute a break in the High-street's shopping front and whether such a break was desirable. MR. LESLIE contended that as Mr. Harwood exercised his profession in the High-street, he should conform to its shopping standards. MR. TURNER argued that his design would harmonise with the High-street and reminded the Council that when they opposed the new Woolworth's store they had claimed that the old Lion Hotel was a desirable break in the shopping front.

Presenting Mr. Harwood's case, Mr. Turner quoted a speech by the Mayor of Guildford complaining of the uniformity imposed on towns by multiple stores. He (Mr. Turner) suggested that this design did something about uniformity without disturbing the harmony of the street scene. It had been considered by the Advisory Panel of Architects and recommended for approval.

MR. LESLIE said the Council's policy was to maintain and develop the continuity, attractiveness and illumination of display in the High-street and to eliminate 'dead spots.'

Societies

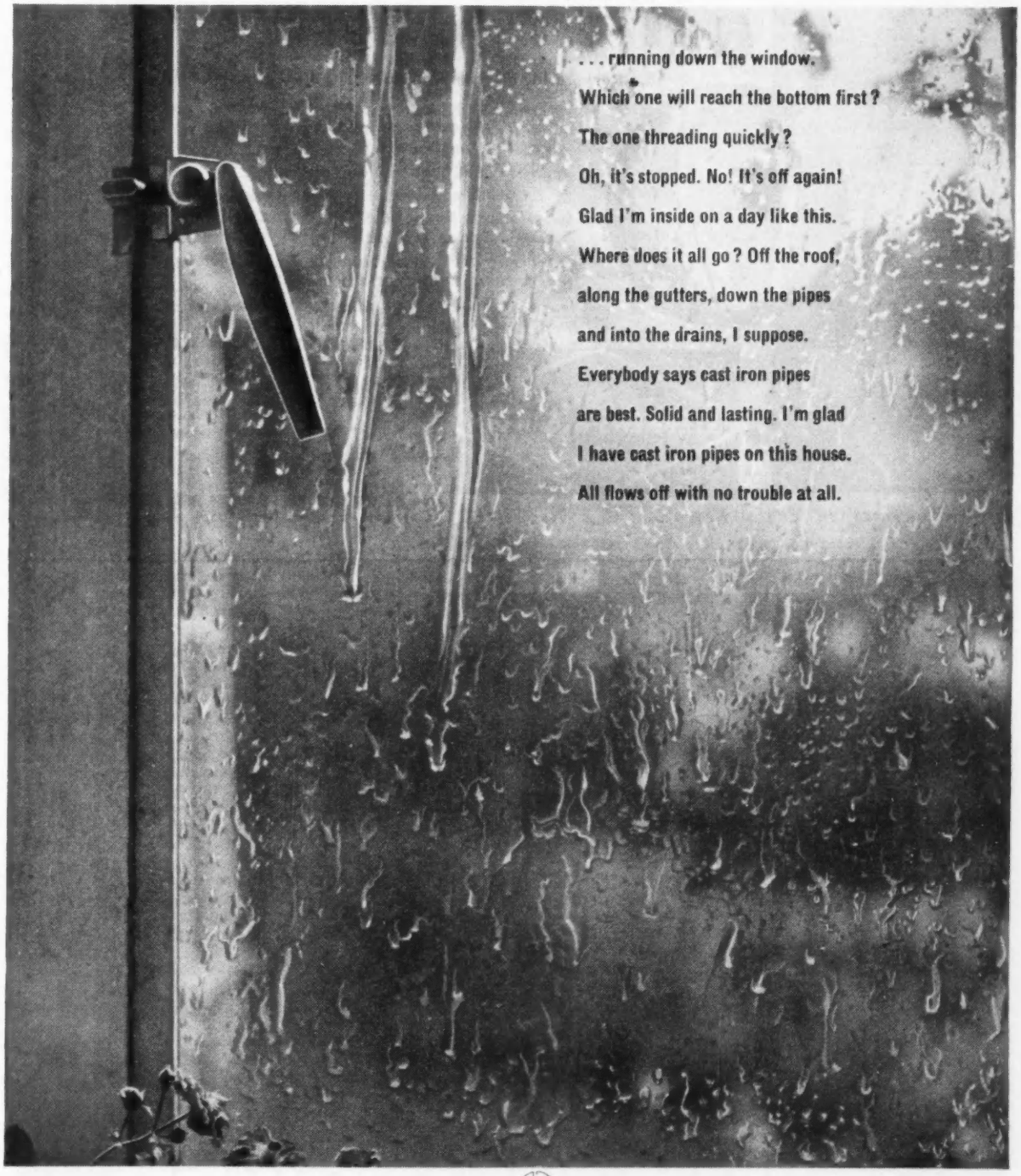
Association of Official Architects

THE FOLLOWING officers were elected by the Birmingham and Five Counties Region of the Association of Official Architects at a meeting held on June 28: Mr. G. E. Gott, ARIBA, Birmingham City, chairman; Mr. E. G. Craven, ARIBA, Warwickshire County Council, secretary; and Mr. J. E. Middleron, ARIBA, Stratford-on-Avon Borough Council, treasurer.

Society of Chief Quantity Surveyors

TWELVE MEMBERS were present at a meeting of the Society of Chief Quantity Surveyors held in Bristol on September 23; the president, Mr. C. M. Nott, ARICS, was in the chair. The executive committee and officers were re-elected for the forthcoming session, and Mr. H. W. Selley, ARICS, was appointed honorary treasurer. The president welcomed Mr. F. P. Goodsman, ARICS (Somerset) to membership, after which a useful discussion of members' problems occupied the remainder of the meeting. Further meetings are to be held during the next twelve months; two in London and one in Birmingham.

WATCH THOSE TWO...



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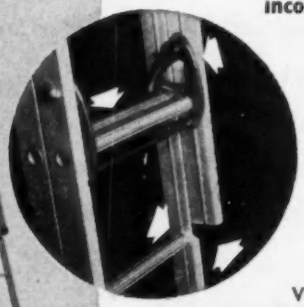

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Road Problems

Alarming Rate of Traffic Growth

TRAFFIC increased at an average rate of 7 per cent between 1951 and 1958. Last year it went up by 12 per cent and, if this trend continues, the national estimates of future traffic will need drastic upward revision. This is the view expressed by the Road Research Board in their Report for 1959, published on September 22 (HMSO, price 7s.).

The Board welcomes the important research the Laboratory has carried out in its observations of the M1 motorway. The results obtained are expected to provide a valuable guide in the planning of a national programme; problems recommended for study include the effect of lighting on accident rates and trials of anti-dazzle fences.

'There are,' states the report, 'obvious difficulties to be faced in urban areas, but the contribution possible from motorways deserves serious study in relation to the traffic for which provision has to be made now and in the future. Among the arrangements made between the laboratory and the Ministry of Transport, plans are in hand for two further groups of experimental sections on the Great North-road.

In the report of the Director of Road Research, Sir William Glanville, CB, CBE, FRS, details are given of the research carried out at the laboratory during 1959.

Traffic and Safety

A study of London traffic has revealed that the rate of growth in the London area is greater at night than during the day. From 1953 to 1958 traffic between 9 a.m. and 5 p.m. rose by 28 per cent, but traffic between 1 a.m. and 6 a.m. increased by 100 per cent.

The eighth London traffic survey, covering about forty miles in Central London, was made in the autumn of 1958. It shows that the number of commercial vehicles is still increasing slowly; that the numbers of buses and taxis have maintained their downward trend; and that private vehicles have increased more rapidly, until in 1958 they represented the largest single class of Traffic. The average journey time, under peak-hour conditions, was 7.3 minutes per mile of which 3.3 (or 45 per cent) was spent waiting or queueing at controlled intersections.

Analysis of Data

An analysis of data collected in a survey of travel in Greater London, shows that in a normal week 60 per cent of road travel was in buses, 22 per cent in private cars, 10 per cent by bicycle and the remaining eight per cent by coach, taxi or motorcycle. Fifty per cent of travel on weekdays took place between 7 and 9 a.m. or between 5 and 7 p.m.

Parking meters in Mayfair helped to increase average traffic speed by 9 per cent but in the surrounding West End zones it decreased by between 7 and 13 per cent. Another study, in Glasgow, has shown that the introduction of 'no waiting' signs in the central area, despite an increase of 5 per cent in traffic flow, has raised the average journey speed by 12 per cent. The greatest effect was at intersections, delays being reduced by 23 per cent.

Materials and Construction

Pavement Design: Investigations into design the structure of a road with regard both to the sub-soil and the traffic continue to occupy an important place in the research programme and the solutions of many of the problems involved are being sought largely through full-scale experiments on heavily-trafficked roads.

Soil Moisture: Apparatus has been developed for studying the moisture suction properties of soils using the pressure-membrane technique, a technique first developed by agricultural scientists. The apparatus covers the range of suctions likely to arise in civil engineering problems in the UK.

Stone Temperature: In the manufacture of coated materials for bituminous surfacings it is essential to control the temperature of the aggregate as it leaves the dryer, so that the material can be laid satisfactorily. A device has therefore been developed which traps a portion of free-flowing aggregate for a few moments so that it collects in a small heap round a sensitive thermometer and is then released.

Riding Quality of Concrete Roads: Experimental work to improve the riding quality of concrete roads has continued. Finishing machines, modified so that the finishing screed was supported between two bogies instead of resting directly on the forms or rails as at present, were used on a number of sites during the year. They were found to produce more uniform road surfaces and, the laboratory states, it is important that they should be generally employed for major concrete constructions.

Road Heating: Investigations into methods of electrical heating on roads to prevent the formation of ice and frost have led to some interesting developments. A full-scale experimental road-heating system, 750 yd. long, has been built into the nearside lanes of the A412 at Uxbridge-road, Slough. The heating grids comprise insulated heating cable of six different types supplied at 240v. and the investigation is to determine which of the cables gives the best results. The output is 9 w. per sq. ft., except over bridges where it has been slightly raised to offset losses from the underside.

Results at Coventry

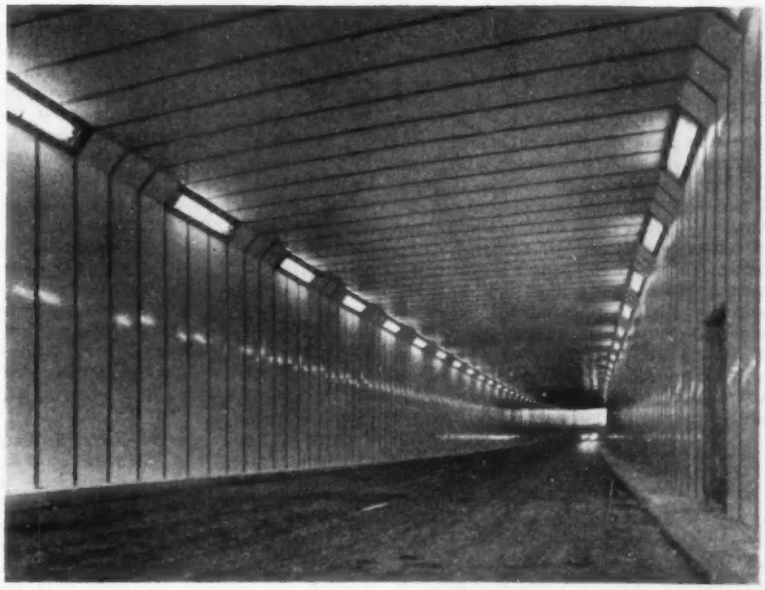
A similar system has been devised along the Mound at Edinburgh and on the ramp leading to the roof of the new retail market in Coventry. These investigations are continuing, but at Coventry satisfactory results have already been obtained, although the rate of snow melting was rather low because the power output was lower than expected.

Building Surveyors' Institute

Associate Examination Results

THE FOLLOWING candidates were successful in the associate examination of The Building Surveyors' Institute held in June:

C. P. S. Buck, M. S. Trezise, L. Beardsworth, K. Lorriman, F. J. Hynes, C. D. Leeke, R. E. Llewellyn, K. McAvoy, B. G. Tierney, H. S. Blood, T. J. P. Moore, W. Lawson, M. J. Young, B. Male, B. Evans, G. Rishworth.



The eastbound tunnel of the Western Avenue underpass, recently opened to traffic, is lined with painted Universal asbestos cement sheets to provide an easily cleaned and repairable surface free from dampness. Consulting Engineers: Rendel, Palmer & Tritton; main contractor: A. E. Farr, Ltd.; linings by Bailey (Bristol) Ltd.

Achieving Clean Air

National Society's Conference

THE ANNUAL CONFERENCE and exhibition of the National Society for Clean Air opened on Wednesday last, October 5, in Harrogate, with an address by the Parliamentary Secretary to the Ministry of Housing and Local Government, SIR KEITH JOSEPH, MP. Before his address the conference—comprising 1,000 delegates from local authorities, national associations, firms, medical men and technologists—was given a civic welcome by THE MAYOR OF HARROGATE (Cllr. L. Roberts).

SIR HUGH BEAVER, who was chairman of the Government's Committee on Air Pollution set up in 1952, then gave a presidential address. Progress, said Sir Hugh, had not been as rapid as they had hoped, but it was being made. He praised industry for the efforts it was making, often at considerable expense, to reduce air pollution. Thus all the new power stations were virtually smokeless, with very high performance grit arrestment plants and high chimneys—up to 600 feet. The iron and steel industry had embarked on a very costly campaign to deal with emissions from ore driers, sinter plants, blast furnaces and the new techniques of steel production. The coking industry had a working party with the Alkali Inspectorate to investigate the problem of 'green gas' from the charging of coke ovens. The bottle-oven kiln of the Potteries was rapidly giving way to smokeless techniques.

'During the past few years,' said Sir Hugh, 'industry has done much and had already spent or allocated several millions of pounds to clean air measures.'

On the domestic smoke problem, Sir Hugh said that there might well in due course be developed domestic heating appliances which could safely use many of our raw coals without nuisance and without skilled, or at least without skilful, and continuous attention. But these had not yet been developed. 'So if we believe in clean air, if we believe that too long have we subjected ourselves and our children and our aged to the unquestioned and lethal dangers of foul air, we must accept that there must in due course be some control over all domestic firing appliances wherever people are thickly congregated; or over the fuel used—or both,' he said. 'In industry it is as we know perfectly possible to use in nearly all boilers and furnaces the poorest of coals so as reasonably to fall within the Act. This is not so and probably never can be the case with the domestic hearth.'

Research Progress

In a paper on October 6, MESSRS. W. D. JARVIS and D. S. WILSON, of the Central Electricity Generating Board, described the surveys conducted by the Board to find out the effect of smoke, dust and gases from power stations on the general level of pollution round the stations.

The authors described work carried out on the results of the pollution measurements which were published by the Department of Scientific and Industrial Research. This work showed that the national level of dust concentration had fallen considerably since 1950, but the concentration of sulphur dioxide gases had risen since 1952. The effect of power stations on the level of these gases was shown to be small even when compared with the level of pollution in country areas.

A group of four scientists (including two women) from the Warren Spring Laboratory of the Department of Scientific and Industrial Research, also came to the conclusion that smoke, dust and gases from high chimneys, as at the newer power stations, made little contribution to pollution near the ground, which for smoke came mainly from domestic chimneys; or from industrial and domestic chimneys for sulphur gases.

Another contribution from the Warren Spring Laboratory, by MR. F. P. WILLIAMS, showed that, 'as far as smoke is concerned, the observed pollution is not connected in any way with the size of the town, and that nowadays, almost all the smoke comes from domestic fires.' Mr. Williams concluded that smoke pollution was a much more local matter than was previously thought, depending on the density of population, and its coal consumption. The inhabitants of a small town might well be exposed to smoke concentration as high as, or higher than, those found in large towns.

MR. G. H. FUIDGE, of the South Eastern Gas Board, described new developments in domestic gas heating, including new gas fires with enclosed burner chambers, giving very high efficiencies. These would make gas heating as cheap or cheaper than heating by coal in an old-fashioned grate.

Research in Ceramics

Greater Effort Needed

THAT THE CERAMIC INDUSTRY, which employed some 150,000 people and had an annual turnover in excess of £200m., was not devoting sufficient money and effort to secure for the future, was condemned as unrealistic and not conducive to healthy growth by MR. R. SPENCER COPELAND, retiring president of the British Ceramic Society, on September 26. Mr. Spencer Copeland was speaking at the North Staffordshire College of Technology, at Stoke-on-Trent.

Deploring the lack of graduate scientists employed on ceramic research, the secretiveness of individual firms, their parochial outlook, and the absence of co-operation between various sections of the industry, the speaker said: 'I know of large electrical firms which have had to set up their own ceramic departments because the ceramic industry itself has not been willing to carry out the necessary research and provide the required materials.'

Very few firms, he said, had taken advantage of the advances made in ready purified raw materials, without which automated production was impossible. What was being done to combat the rapid technical growth of the Russians, who could pool all their resources to solve one problem? 'Britain does not lack the brains, but I believe that much useful knowledge is being unnecessarily hidden.'

Until recently, continued Mr. Spencer Copeland, there had been no contact with the industry's counterparts in Europe, who were well organised, but he welcomed the growing degree of co-operation with them, especially in the field of fundamental research. In conclusion the speaker suggested that the industry should take a leaf out of the medical profession's book, where every new development was openly published in the professional journals.

Coast Protection Costs

Shared Financial Responsibility

MR. HENRY BROOKE, the Minister of Housing and Local Government, said on September 26 that if the whole financial burden were shouldered by the Government, decisions on coastal defence plans would inevitably be taken out of the hands of local people. The Minister was speaking at Clacton-on-Sea at a ceremony marking the completion by Clacton Urban District Council of its coast protection works. He continued:

'I think that the people who live in the area ought to have an effective say in the planning of the sea defences which affect them so vitally. I am quite certain that holiday resorts, which so often take the opportunity to embody promenade schemes and planting schemes and other attractions for visitors in the construction of the sea defences, would not care much for the purely utilitarian form that coast defences would take if the Government shouldered the whole financial responsibility, and planned the works purely and simply to keep the sea out.'

Various Interest Involved

Earlier Mr. Brooke remarked that it was sometimes suggested in Parliament that coast protection should become entirely a national responsibility. However, a Royal Commission in 1911, and a committee under the chairmanship of Lord Waverley after the 1953 floods, both decided in favour of the view that coast protection was a matter in which individual and local and national interests were all concerned, and therefore that the cost should be so distributed.

'It is just over ten years since the Coast Protection Act came into operation,' concluded the Minister; 'in that time some 300 coast protection schemes in England and Wales have been put through, at a total cost of £15m. Exchequer grants towards that cost so far has totalled about £7m.'

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- Follower holes brass bushed
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The locks can be master keyed in suites to include sub-masters, sub-grand masters and grand masters.

Contemporary Design

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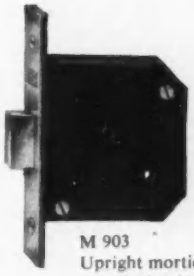
The Yale Reversible Rebated Forend Set

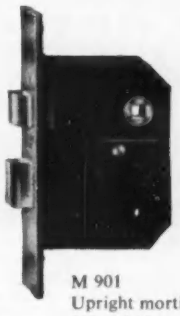
This set enables Yale 3-lever Mortice Locks *and* all other standard Yale plain forend mortice locks to be converted into fully rebated locks. The set is completely reversible for left or right hand, inward or outward opening doors.

Key—nickel plated, with black nylon covered shank for durability and self-lubrication at point of contact with lock (to BS 2088)

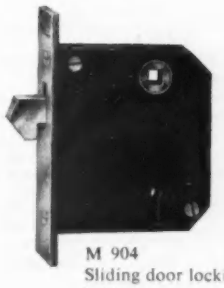


M 903
Upright mortice (deadlocks) 2½" and 3"

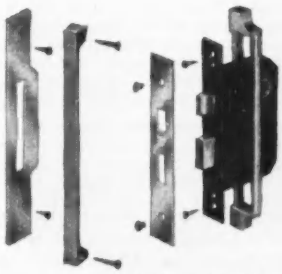
M 902
Horizontal mortice locks 5" and 6"



M 901
Upright mortice locks 2½" and 3"



M 904
Sliding door locking latch



The Reversible Rebated Forend Set

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Lowest running costs. There has been a radical change in Britain lately—more and more people are demanding central heating in their houses. But they don't want to pay fanciful prices for it—either for installation or for running. That is why SOLID FUEL central heating is so popular and that's why it will pay you to put in SOLID FUEL central heating. A two- or three-radiator system can cost as little as 9/9d a week to run! Compare figures with oil, gas, electricity—see chart on the right.

Lower installation costs. Compared with oil, solid fuel systems are much cheaper to buy and install. The new solid fuel boilers are really streamlined and require very little attention. They are thermostatically controlled and finished in gleaming vitreous enamel in a range of modern colours.

N.C.B. Housewarming Plan—offers a personal loan to cover the cost of a central heating installation. Low interest—five years to pay—tax relief.

Lowest maintenance costs. Solid fuel systems cost practically nothing to maintain. But with other fuels, skilled maintenance is necessary and this can cost from £5 to £15 per year—another 2/- to 6/- a week on the running cost.

Compare the costs. These are typical weekly costs, averaged over the year, for centrally heating a three-bedroomed house or bungalow—and hot water summer and winter. Look how much cheaper solid fuel is.

		6 or 7 radiators and hot water ▼	2 or 3 radiators and hot water ▼
COKE In independent boiler	**9/- per cwt**	**9/9d**	**15/-**
SMALL ANTHRACITE In gravity feed boiler	**12/- per cwt**	—	**14/1d**
GAS	**1/4d therm** plus, say, 2/8d a week standing charge	**16/1d**	**23/6d**
ELECTRICITY	**1d unit** (No standing charge included)	**18/2d**	**29/10d**
OIL	**1/5½d gallon**	* **12/10d**	* **22/8d**

* *plus 2/- to 6/- a week maintenance cost.*

Write for FREE booklet on Central Heating and list of other technical publications to the Coal Utilisation Council, 3 Upper Belgrave Street, London, SW1. Also available 'Central Heating for Houses', a complete 120-page illustrated survey of all the various systems available, from the open-fire-and-back-boiler to the small-pipe system. Copies 2/6d each.

The cheapest central heating there is—SOLID FUEL

ISSUED BY THE COAL UTILISATION COUNCIL

Developments in Transport Vehicles

Many New Models

By a Correspondent

THIS YEAR'S COMMERCIAL MOTOR SHOW at Earls Court revealed a good deal of interesting development in the design of the light and medium-weight vehicles which cater for the bulk of transport requirements in the building and allied trades.

Many of the improvements have been directed towards giving easier access to the driving compartment and the load, particularly in forward-control types. One of the drawbacks of forward-control design when applied to chassis of moderate dimensions has been that the position of the engine restricts space in the cab and impedes the driver's movements. By placing the engine further to the rear than is customary—and, in one case, mounting it in a separate compartment behind the cab—an unobstructed 'walk-through' floor is provided in the driving compartment, allowing the driver to enter or leave easily from either side. This position of the engine also makes three-abreast seating possible.

Driver convenience is also improved by the trend towards full forward-control, with the whole driving compartment as near to the front as possible. One advantage is the provision of a low step forward of the front wheels, avoiding the need for the driver to clamber over the wheel arches. Sliding doors to the driving compartment, and side doors allowing vans to be loaded and unloaded from the kerb, are now available on all but the smallest vehicles. Smaller diameter wheels, to provide a lower load line, are becoming a feature, an incidental advantage being that the reduced wheel arches allow better use to be made of the available load space.

Front Wheel Drive

Front wheel drive is employed for three models shown at the Earls Court exhibition for the first time, and the manifest advantages of this design for delivery vans seems likely to encourage further developments of the same kind. The elimination of the propeller shaft to the rear wheels, and the use of independent suspension front and rear—a natural corollary—facilitate the mounting of bodywork with a low, flat floor, giving easy 'step-in' access to the load space or to the cab.

A good point of most of the newer vehicles is improved visibility in most directions, contributed to by wider and deeper windscreens, narrower side pillars to reduce blind spots, and larger screen wipers. Something is being done to improve rearward visibility by the fitting of more sensible mirrors—larger, more rigidly mounted, and rectangular instead of round. A thoughtful detail on one new model is a mirror mounted above and in front of the windscreen, to give the driver a view of the ground immediately in front of his vehicle. The idea is one that might be copied, as many accidents are caused by children playing near stationary vehicles and being unobserved by the driver when he moves off.

New features in most of the heavier goods vehicles reveal motorway influence, an objective of most designers being to provide for operation at sustained high speeds when these are required. Engines generally have been tuned to give more power, and increasing use is made of two-speed axles, multi-ratio gearboxes, supplemented by overdrive and 'super-lows,' and improved braking. Power assistance for steering and handbrake are becoming standard features, and a power-assisted clutch is usually available when the more powerful engines are specified.

Articulated Vehicles

Articulated vehicles were particularly numerous at the exhibition, and the marked advances that have been made during the last few years in semi-trailer design are undoubtedly responsible for the notable return to favour of this type of vehicle. Two features that have undergone very considerable development are the use of light alloy chassisless construction and the application of air suspension.

The ability of air suspension to compensate for variations in axle loading is of particular value in trailers, where the difference between laden and unladen weight is much greater than in powered vehicles, and trailer manufacturers have therefore been more inclined to face the higher cost of this method of suspension than have vehicle designers. The saving in weight which is an additional advantage of air suspension, combined with that achieved by methods of construction which eliminate the normal chassis frame, can be translated into terms of increased payload which make the tractor-and-trailer unit an attractive proposition in the heavy goods carrying field.

Among tippers the main trends are the continued development of light alloy bodywork and the greater availability of chassis with drive to more than one axle. Steady rather than spectacular progress may be said to be the feature of tipping gears themselves; heavy-duty gears, to keep pace with the greater payloads that are becoming normal, are of interest, as are detailed contributions to safe operation, such as new designs of cab warning lights.

Builders' Vehicles

A Recent Court Ruling

A DECISION which a solicitor claimed would put all builders 'in an extremely difficult position' was recently made by Bishop Auckland, County Durham, magistrates. They ruled that licences were required for builders' vehicles working on a housing site, and found a Bishop Auckland builder guilty of using a dumper lorry without a licence and insurance on a public road.

Mr. Joseph Pye, of Etherley-lane, Bishop Auckland, was fined £5 for not insuring the dumper and £2 for not licensing it. He denied both offences.

MR. H. HEWITTS, defending, claimed the road was under construction and not covered by the Vehicles (Excise) Act, Act, 1949. CHIEF INSPECTOR C. D. WILLS said the dumper, when delivering materials, had to cross a road taken over by Bishop Auckland Urban Council two years ago and which therefore came under the Act.

MR. HEWITT replied: 'It will be extremely difficult for builders if it is contended that when roads are constructed on an estate prior to the erection of houses, they are required to have licences for their site vehicles. The roads are built first for the benefit of the contractor and not the general public. If the builder does not put up a barrier is it to be called a public road merely because the builder omits to erect one?

Mechanical Plant Engineers

Successful Inaugural Meeting

THE INAUGURAL MEETING of the Manchester and District branch of the Contractors Mechanical Plant Engineers, held in Manchester on September 13, was well supported by an already healthy membership. It is expected that within the next few months this membership will increase by at least one hundred per cent. The meeting elected its officers and committee for the forthcoming session, who afterwards expressed their appreciation to Mr. J. V. Isaacs, Mr. W. J. Muircroft and Mr. J. A. Tantor for their willing help during the difficult formative period.

The elected officers and committee members were: Mr. W. H. Haigh (Grayston Plant & Engineers Ltd.), chairman; Mr. A. G. Pheasey (R. Cripps & Co. Ltd.), treasurer; Mr. P. S. Seed (Contractors Plant Hiring Co. Ltd.), secretary; Mr. M. Mitchell (Swan Road Rollers Ltd.), Mr. J. A. Gore (Fram Excavations Ltd.), Mr. F. Jackson (Vessey Ltd.), Mr. H. B. Higginbottom (Abelson & Co (Engineers) Ltd.), Mr. Bryan Jones (Buckton Ltd.) and Mr. P. Moore (Lappin & Moore Plant Ltd.), committee members.

The last meeting of the Branch was held on October 4 in Manchester. Details of membership may be obtained from the secretary, Mr. P. S. Seed, at 91 Shaw-road south, Shaw Heath, Stockport, Cheshire.

National Joint Apprenticeship Board

Decline in Recruitment and Indenturing

ACCORDING TO THE REPORT of the National Joint Apprenticeship Board dated June, 1960, just issued*, there has been a steady decline in the recruitment and indenturing of apprentices over the past four years. Complete figures of recruitment prior to 1953, it is stated, are not available, but it may reliably be estimated that from 1945 to the end of 1959, more than 160,000 boys have been indentured and trained under the National Scheme. From March, 1953, until December 31, 1959, 64,359 youths (including apprentices formerly registered by the Building Apprenticeship and Training Council (now superseded) and transferred) were admitted to the National Register of Apprentices. At December 31, 1959, there were 32,477 indentured apprentices under training.

Although this number falls short of the estimate (made in 1953) of the total number of apprentices that could be expected to be on the register by 1959-60, there have been a number of factors, outside the industry's control, which undoubtedly have had the effect during the last year or two of slowing down the rate of recruitment to some extent. The annual recruitment of apprentices for the years 1953-59 has been:

1953 ...	9,516 (nine months only)
1954 ...	11,010
1955 ...	11,067
1956 ...	9,830
1957 ...	8,140
1958 ...	7,552
1959 ...	7,244

'Downward Trend Arrested'

Although the downward trend of new apprenticeships and registrations has to some extent been arrested, states the report, the current rate of recruitment is still far from satisfactory. At December 31, 1958, there were 35,841 apprentices on the register as under training; at December 31, 1959, the figure had fallen to 32,477. This fall is accounted for by the fact that whereas for the twelve months ended December 31, 1959, only 7,244 registrations were approved, 9,819 apprenticeships were completed and there were 789 cancellations. One or two regions have shown a small increase in new apprenticeships during the twelve months ended December 31, 1959, as compared with 1958, but generally there has been no improvement overall in the rate of recruitment and indenturing.

From the information that has been forthcoming from the various regions it would seem that despite a generally more favourable trade prospect, the industry has been slow to recover from the uncertainties induced by the economic crisis of 1957 and 1958, and by the curtailment of building activity that followed. It is hoped, however, that with an improvement in trading prospects for the industry it will be possible to secure a corresponding expansion of apprenticeship recruitment.

In its review of the apprenticeship situation the Board also takes into account the results, made available by the Ministry of Works, of the Ministry's periodic inquiries into the number of boys in training whether indentured or not. These figures show that while there has been some improvement in the proportion of boys in training who are indentured apprentices this proportion is still scarcely more than 50 per cent. The Ministry's figures show, too, that of all the firms in the industry 40 per cent only are training boys at all, while the proportion of firms training indentured apprentices is as low as 18 per cent.

The Ministry has helped the Board considerably by analysing the results of its inquiries and it has been particularly helpful to have the figures of boys in training analysed according to the size of the firm. This analysis shows that while the ratio of boys in training to craftsmen is best with the smaller firms it is the larger firms which have the better ratio of indentured apprentices.

It is evident from the Board's own statistics and from the figures made available by the Ministry that whilst there is no substantial shortfall in the number of boys entering the industry to train as craftsmen, greater efforts are needed to ensure that the National Apprenticeship Scheme is fully implemented and that all lads under training are indentured under an approved written deed and registered with the Board.

To this end Youth Employment Officers can render valuable assistance to the Joint Apprenticeship Committees by endeavouring when assisting lads to find employment to place them with employers who are willing to indenture them. The report includes particulars of scholarships available, City and Guilds craft courses and full-time pre-apprenticeship courses.

*National Joint Council for the Building Industry, 11 Weymouth-st., Portland-place, London, W1. Price 1s.

Tabulating Criticism in the Industry

LMBA President Proposes 'Private Session'

THE IDEA that architects and builders might get around a table in private and tabulate the criticisms which each side too often made of the other in public, was advanced by MR. ERNEST COOK, BSC, FIOB, President of the London Master Builders' Association, speaking at the annual ladies' night of the North-Eastern area of the LMBA, held in the Dorchester Hotel, W, on Monday night.

Mr. Cook was responding to the toast of 'The London Master Builders and Guests,' felicitously proposed by the Chairman of the area, MR. F. N. CARMODY, FIOB. He continued:

'Building as an industry is not very different in its several parts; all have as an aim to make a living and to make a profit. I hope no one will think there is anything wrong about that. All sides co-operate in various ways to serve the industry.

Changes in the Industry

'But the industry is changing,' said Mr. Cook, 'steadily and inexorably. In architecture, for instance, things that would have been rated acceptable by people even a few years ago are not considered acceptable today. And in building the tower crane and the batch-mixer are altering the design of building.' Nor were the changes confined to inanimate things—they were extended to people who together made up the industry. Those people worked often under stress, and this showed itself in the criticism that one side so often indulged in at the expense of another.

'I believe it would be a good thing' declared the speaker, 'if the critics among the architects and builders looked at each other for a change through the wrong end of the telescope, and diminished rather than magnified the defects they see. Perhaps the time has come when the professions and trade might get together round a table and tabulate the criticisms each has of the other with the idea of refashioning the industry into one better equipped to serve the public. If there is anything in this idea, the LMBA would be glad to take part, but' said Mr. Cook, 'in the end it will come down to the contribution which each individual member personally will make.'

The President concluded by paying a tribute to Mr. Percy Bates for his work in arranging the evening. 'I look forward to the day in 1962' he said, 'when you in this Area will have the pleasure of entertaining him at this function as LMBA President.'

Dancing followed until midnight.

Those present included: Mrs. F. N. Carmody, Mrs. Ernest Cook, Dr. & Mrs. E. H. Hart, Mr. & Mrs. Percy Bates, Mr. & Mrs. Ernest Jones, Mr. & Mrs. R. E. Stenning, Mr. & Mrs. Ian M. Leslie, Mr. & Mrs. A. G. Miles, Mr. & Mrs. H. J. Horn, Mr. & Mrs. L. F. Chamberlain, Mr. & Mrs. K. C. F. Foster, Miss C. F. M. Cannon, Mr. & Mrs. F. H. Chidgey, Mr. & Mrs. S. E. Bragg, Mr. & Mrs. Norman Harris and Mr. & Mrs. Peter Gatehouse.

Housing Progress

Figures for August

UP TO August 31, a total of 3,584,583 houses has been provided since the war, of which 1,119,005 have been erected by private builders. In the month of August itself, private builders put up 14,642 houses and public authorities 9,688. These figures apply to Great Britain; individual figures for Scotland are on page 678. In the first eight months of 1960 192,249 permanent houses were erected in Great Britain compared with 174,879 in the same period in 1959.

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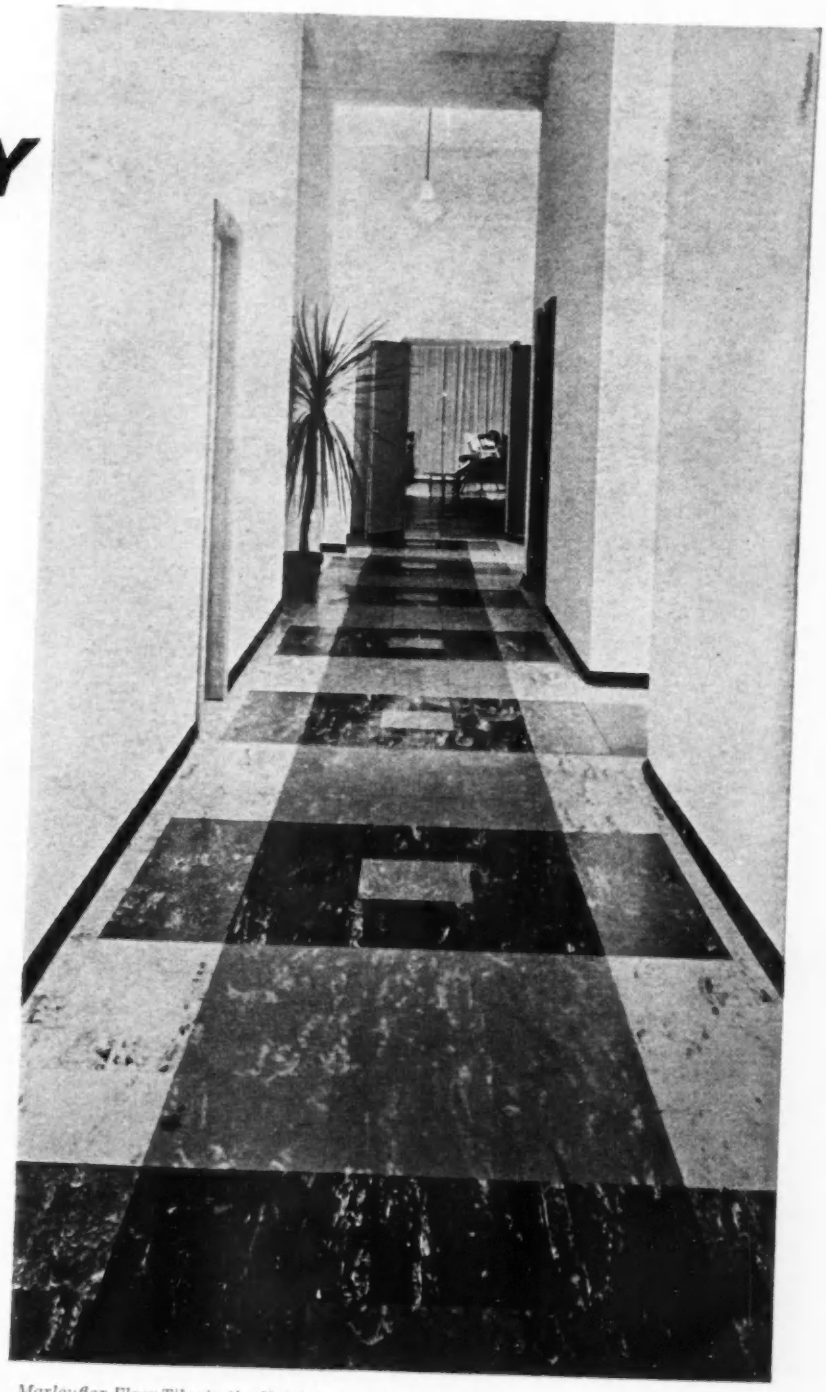

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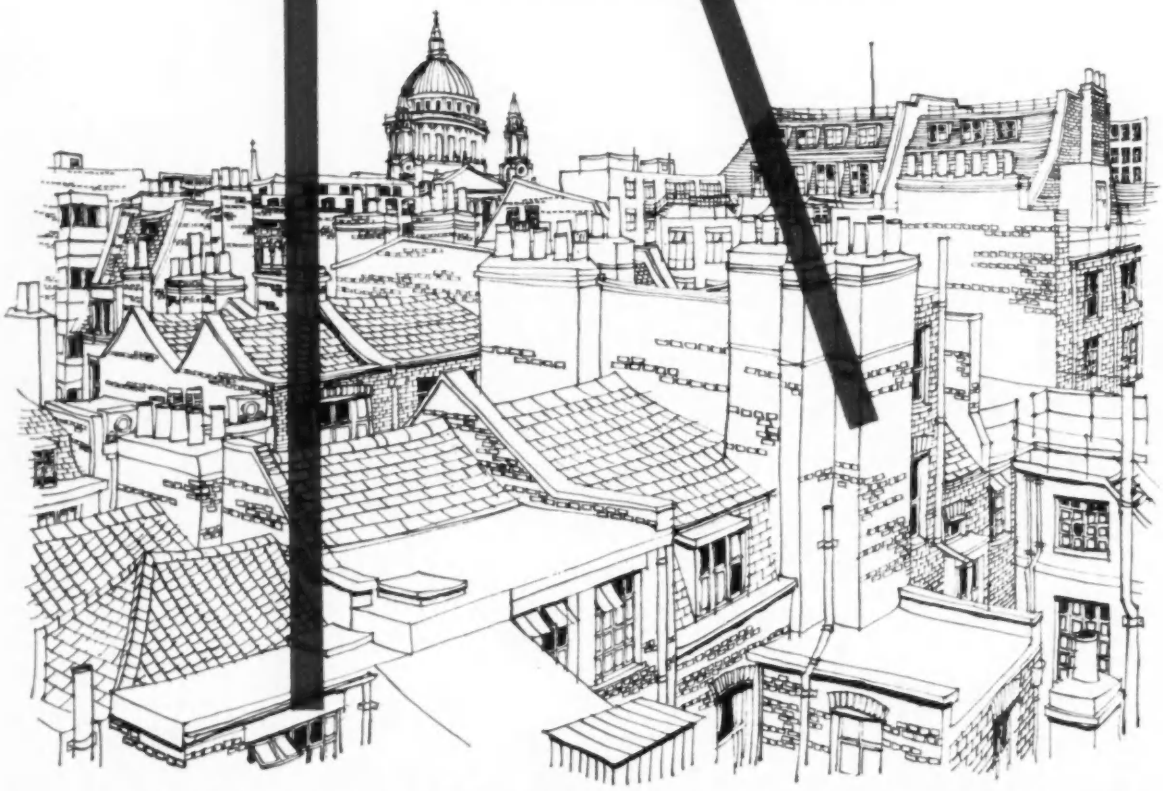

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THE BUILDER LONDON MEASURED RATES

These prices for new building work in London normally appear in the first issue of each month only. The prices are inclusive of all allowances for National Insurance, Holidays with Pay and Public Holidays, Third Party Risk, Travelling Allowances and Guaranteed Week. They cover a profit of 10 per cent on the prime cost without any addition for establishment charges.

These rates do not include for Foremen and other preliminary items, such as office, sheds, plant and scaffolding, etc., and these must be added accordingly.

The basic cost of the labour and materials used in arriving at the rates has been derived from the 'Current Prices of Materials' published in *The Builder*.

The data given are copyright. While every endeavour is made to ensure accuracy, we do not hold ourselves responsible for any error that may occur.—EDITOR.

EXCAVATOR

All hand labour	*Per yd. cube*				
	Loose earth	*Firm soil*	*Stiff clay*	*Chalk and flints*	*Rock, etc., no blasting*
	s. d.	s. d.	s. d.	s. d.	s. d.
Surface excavation to shallow depths	8 3	10 3	11 9	17 10	46 0
Bulk do. or large trenches, etc., not exceeding 5 ft. deep ...	7 6	9 4	10 9	15 10	42 0
Trenches do. under 4 ft. 6 in. wide and do.	10 0	12 1	14 0	20 8	55 0
Pier holes and similar under 6 ft. square and do.	11 3	13 10	16 2	23 9	61 6
Additional throw for every 5 ft.:					
Bulk excavation	3 9	3 9	5 5	5 5	6 2
Trench ,, ...	5 0	5 0	6 8	6 8	7 8
Pier ,, ...	5 7	5 7	7 6	7 6	8 6
Return, fill and ram	5 2	5 2	6 8	6 8	8 2
Wheeling surplus n.e. 100 yds. run and depositing	7 2	8 0	8 0	8 0	9 0
Underpinning in trenches ...	13 4	18 6	21 6	30 9	—

		s. d.
Loading lorries and transporting to tip	Yd. cube	16 5
Basketing out and depositing	,,	10 0
Planking and strutting to sides of surface or basement trenches :		
Depth up to 5 ft.	Ft. sup.	6
,, ,, 10 ft.	,,	8
,, ,, 15 ft.	,,	9
Hardcore :		
Filled-in layers and consolidated	Yd. cube	22 3
do. 4 in. thick	Yd. sup.	3 3
do. 6 in. thick	,,	4 4

CONCRETER

	Basic yard cube rates			
	1 : 12	1:3:6	1:2:4	1:1½:3
Aggregate	1½ in. all-in	1½ in.	¾ in.	½ in.
Concrete in normal foundations : (minimum 6-ton cement loads)—	s. d.	s. d.	s. d.	s. d.
Portland cement standard specification	66 3	74 1	81 1	85 1
Portland cement rapid hardening...	67 6	75 11	83 7	88 5
Water-repellent cement	70 3	79 10	89 4	95 7

		s. d.
Add to above basis for :		
4 in. surface beds	Yd. sup.	7½
6 in. ,, ,, ...	,,	8½
(If above two items worked around mesh reinforcement, add 5d. per yd. *super.*)		
Foundations in underpinning in short lengths... ...	Yd. cube	16 4
Beds and flaunchings to drains	,,	8 2
Pier or stanchion foundations—small	,,	4 1
Sundry small items not exceeding 3 ft. cube in plinths, curbs, padstones, etc.	,,	21 6

REINFORCED CONCRETE

ADD to above 'Basic Yard Cube Rates'

		s. d.
Reinforced concrete including working around reinforcement between formwork and hoisting to normal levels :		
Foundations and similar	Yd. cube	5 5
Isolated stanchion or pier bases	,,	6 5
walls not exceeding 6 in. thick	,,	26 8
,, ,, ,, 12 in. ,, ...	,,	18 3
Suspended floors or flat roofs 4½ in. thick	Yd. cube	21 6
,, ,, ,, ,, 6 in. ,, ...	,,	17 5
,, ,, ,, ,, 9 in. ,, ...	,,	14 10
(Beams attached to floors or flats, *add* 6/8 yd. cube)		
Isolated beams or lintels average 72 sectional inches ...	,,	32 3
Do. average 144 sectional inches	,,	24 1
Columns or stanchions average 72 sectional inches	,,	37 8
,, ,, ,, ,, 144 ,, ,,	,,	29 5
Staircases and landings, etc.	,,	56 1
Shell roofs average 3 in. thick, including labour forming curved surface	,,	133 3
Hollow tile floors :		
Hollow clay tiles 4 in. thick with 1 : 2 : 4 concrete ribs at 14 in. centres with filler tiles and 1½ in. fine concrete screed (excluding reinforcement and form work)	Yd. sup.	19 4
All as above but 6 in. thick clay tiles	,,	23 5
,, ,, ,, ,, 9 in. ,, ,, ,, ...	,,	32 7
Sundry items :		
2 in. concrete (1 : 2 : 4) blinding bed	Yd. sup.	5 0
Spade finish to concrete beds	,,	10
Trowel ,, ,, ,, ...	,,	1 10
Laying to falls and currents	,,	1 0
Hacking concrete by hand	,,	2 8
Hacking concrete by use of proprietary liquids ...	,,	1 7
Damp-proof membrane in three coats with sanded key	,,	4 10
⅜ in. Bitumen expansion joints 4 in. deep in floors ...	Yd. run	3 11

	Mild steel rods (round) cut, bent, hooked, wired and fixed complete (Ex. London Stock)			
	¼ in.	⅜ in.	½ in.	⅝ to 1 in.
Reinforcement :	s. d.	s. d.	s. d.	s. d.
Floors beams laid in only ...	88 6	79 4	73 8	70 3
,, ,, ,, wired into frames	100 7	90 0	85 10	80 3
Walls wired into frames	100 7	90 0	85 10	80 3
Columns wired into frames ...	100 7	90 0	85 10	80 3
Staircases wired into frames ...	102 11	92 4	88 2	82 7

		s. d.
Steel mesh fabric reinforcement :		
Laid in floors including laps and straight cutting and wiring, etc. :		
Weight 3·94 lb. per yd. sup.	Yd. sup.	4 3
,, 4·71 lb. ,, ,, ,, ...	,,	4 6
,, 9·32 lb. ,, ,, ,, ...	,,	8 4
Raking cutting worth 6 in material cost per ft. run		
Circular cutting worth 9 in. material cost per ft. run.		
Formwork (Sawn) including strutting, easing and removal and average four times use of timber :		
Soffit of floors and flat roofs	Yd. sup.	16 9
Sloping soffits of stairs	,,	22 10
Barrel-vault soffits of floors and roofs	,,	21 4
Vertical sides of walls	,,	16 0
Battering sides of walls	,,	20 10
Columns	Ft. sup.	2 5
Lintels and beams	,,	2 7
Staircase strings cut to tread and riser	Ft. run	3 7
Edges of concrete floors, etc., up to 12 in. deep per inch in height	,,	2¼
Rebates or similar per inch girth up to 6 in. girth...	,,	2½
Raking cutting	,,	8½
Extra cost for wrought shuttering and labour rubbing down to leave fair face on concrete ...	Yd. sup.	2 7
Pre-cast Concrete (1 : 2 : 4) including fair face :		
4½ in. x 6 in.reinforced lintels	Ft. run	3 0
9 in. x 6 in. ,, ,, ...	,,	5 3
9 in. x 9 in. ,, ,, ...	,,	8 7
Steel Formwork :		
Steel shuttering forms with patent expanding floor centres and telescopic props not less than four times use on each job with continuous use ...	Yd. sup.	11 6

Partitions : (Minimum 100 yd. super)	*Yd. super rate*			
	2 in.	*3 in.*	*4 in.*	*6 in.*
	s. d.	s. d.	s. d.	s. d.
Clinker concrete slab partitions in cement mortar	9 8	12 2	14 2	—
Cranham terra cotta slab partitions in cement mortar	13 2	16 2	19 1	—
Moler partition block partitions in cement mortar	18 2	23 3	25 11	—
Thermalite-Ytong partition blocks in cement mortar	—	15 8	19 4	27 7

Cuttings :

Raking cutting and waste = ⅓ of ft. sup. rate
Circular ,, ,, ,, = ½ of ft. sup. rate
Cutting around openings = ¼ of ft. sup. rate
Cutting and bonding at angles, intersections and ends all at 6d. ft. run.

BRICKLAYER

	Yd. super rates			
	Plain flettons	*Rough stocks*	*Second stocks*	*Blue wire-cuts*
	s. d.	s. d.	s. d.	s. d.
Brickwork in cement mortar (1 : 3) reduced to one brick thick	37 0	50 3	59 11	92 0
Deduct if in 1 : 1 : 6 cement-lime mortar	10	10	10	10
Add if in :				
Filling in openings	5 8	5 8	5 11	7 2
Backing to masonry	2 10	2 10	3 0	3 8
Building overhand	1 10	1 10	1 11	2 2
Raising on existing work	2 10	2 10	3 0	3 8
Circular on plan to quick sweep ...	5 6	5 6	5 9	6 10
Small detached piers, plinths, etc.	8 4	8 4	8 9	10 5
Underpinning	5 6	5 6	5 10	6 11
Brick-on-edge walls	12 8	17 8	20 8	—
Half-brick sleeper walls honeycombed	13 3	18 1	—	—
Half-brick walls	20 9	28 6	33 2	50 6
do. with fair face and pointing both sides as work proceeds	23 11	—	36 8	54 6
One-brick wall with fair face and pointing both sides as work proceeds	42 3	—	64 10	97 10
11 in. cavity brick wall with two half-brick skins with 2 in. cavity and three galvanised iron twisted ties to every yd. sup.	45 2	—	70 0	—

Sundry items :		s. d.
Horizontal double slate damp-proof course ...	Ft. sup.	3 4
Vertical ,, ,, ,, ,, ...	,,	4 1
Hessian-base bitumen damp-proof course	,,	1 6
Levelling and preparing for raising on	,,	1 0½
Cutting, toothing and bonding new to old	,,	3 8
Wedging and pinning with slates in underpinning ...	,,	5 2
Rough cutting	,,	6
Cutting and fitting brickwork around steel	,,	6
Bed and point frame one side	Ft. run	4
Rough cutting squint or birdsmouth	,,	6½
Labour plumbing angles on faced work	,,	2½
Rake out and point to lead flashing	,,	7½
,, ,, ,, ,, stepped flashing	,,	10½
Cutting groove for skirting and point	,,	1 7
Shallow chases for small pipes and conduit	,,	1 9
Metal reinforcement 24 gauge 2½ in. wide	,,	4½
Faced work : (Flemish bond) :		
Add or deduct for every 10s. per 1,000 difference from basic price of common bricks in Flemish bond in solid work	Yd. sup.	9
do. to half-brick wall in stretcher bond	,,	6½
Add for extra labour to each side in facings and pointing as work proceeds	,,	3 2
do. butt joints raked out and pointed with special mortar	,,	6 3

If built in English bond, add 12½ per cent to above items.

Labours :		
Fair cutting	Ft. run	1 1½
Fair circular cutting	,,	1 4
Fair squint or birdsmouth cutting	,,	1 9

		9 in. wall	*14 in. wall*
Copings :		s. d.	s. d.
Brick-on-edge coping in flettons finished fair and pointing as work proceeds ...	Ft. run	2 4	3 1
Add for every increase by 10s. per 1,000 in cost of superior bricks	,,	1	1½
Add for two courses of roofing tiles under and cement weather fillets on both sides	,,	3 7	4 4
Cills :			
Two courses of roofing tiles laid breaking joint in cement mortar, set weathering and pointing ...	Ft. run	3 7	
Arches :			
Extra over fletton brickwork for brick-on-end flat arch 4½ in. on soffit and 9 in. high in facings p.c. 350s. per 1,000 and pointing	Ft. run	3 7	
Extra over fletton brickwork for fair axed arch in stock facings p.c. 350s. per 1,000 and pointing (cuttings measured separately)	Ft. sup.	9 3	

CURTAIN WALLING

Curtain walling of hollow, extruded, aluminium alloy mullion and transom units fixed together to form a grid to conventional steel and concrete framework, including glazing complete and a reasonably priced infilling panel and subject to the number of vents, etc., required, a fair average price is from 22/- to 27/6 per ft. sup.

PAVIOR

	Yd. super rates			
	½ in.	*¾ in.*	*1 in.*	*1¼ in.*
	s. d.	s. d.	s. d.	s. d.
Cement screed (1 : 3) to receive pavings	4 5	5 3	6 1	6 11

Add to above for :		d.
Trowelling smooth	Yd. sup.	7
Narrow widths or small quantities—add 25 per cent. to plain surfaces : Laying to falls	,,	4

	Yd. super rates			
	1 in.	*1¼ in.*	*1½ in.*	*2 in.*
	s. d.	s. d.	s. d.	s. d.
Granolithic paving (1 : 2½) laid on concrete	8 9	9 11	12 0	13 2

Add to above for :		s. d.
Narrow widths or small quantities—add 25 per cent to plain surfaces.		
Surface hardening with three coats of silicate of soda	Yd. sup.	1 5
Carborundum finish with 2 lb. per yd. sup. trowelled in	,,	3 0
¾ in. skirting 5 in. high covered at bottom and fair top edge	Ft. run	2 9
Mitres and ends—7d. each.		
Composition flooring ½ in. thick	Yd. sup.	18 0
Terrazzo paving ⅜ in. thick	,,	45 0
Rubber flooring ¼ in. thick	,,	65 0

ASPHALTER

		Mastic BSS 988	*Natural rock BSS 1162*
Asphalt roofing :		s. d.	s. d.
¾ in. flat to falls in two thicknesses on felt underlay on prepared screed	Yd. sup.	14 3	20 0
do. in small quantities or narrow widths	Ft. sup.	2 0	2 9
6 in. high skirting with angle fillet and splayed edge at top	Ft. run	2 7	3 0
External angles on do.	No.	7	7
Internal angles on do.	,,	7	7

		Mastic BSS 1097	*Natural rock BSS 1418*
Asphalt Damp-proof Course and Tanking :		s. d.	s. d.
Vertical damp-proof course in 2 thicknesses	Yd. sup.	21 0	27 0
do. in narrow widths	Ft. sup.	2 6	3 4
¾ in. Horizontal damp-proof course in two thicknesses	Yd. sup.	14 4	19 9
do. in narrow widths	Ft. sup.	1 10	2 6
Vertical tanking in three thicknesses ...	Yd. sup.	25 0	31 4
1¼ in. Horizontal do. in three thicknesses	,,	19 3	29 2
Labour double angle fillet	Ft. run	1 4	1 4

DRAINLAYER

	Per yd. run Depth of trench				
	2 ft.	3 ft.	4 ft.	5 ft.	10 ft.
	s. d.	s. d.	s. d.	s. d.	s. d.
Excavate trench, part return fill and ram and remove surplus, inc. planking and strutting. (In firm soil—if in clay or chalk adjust in accordance with previous excavation rate:)	8 3	21 7	28 10	36 0	106 3

	Per yd. run		
	4 in.	6 in.	9 in.
	s. d.	s. d.	s. d.
Concrete (1: 6–1½ in agg.) 12 in. wider than external diameter of pipe in 4 in. bed and benching up on both sides	8 0	8 10	11 3
do. but 6 in. bed and do.	9 7	11 3	13 7
do. but 4 in. bed and surround to pipe	11 7	14 5	19 0
do. but 6 in. bed and surround to pipe	15 7	18 10	23 9
	Per ft. run		
Salt glazed drain pipes laid and jointed in trench (Minimum two-ton loads):	4 in.	6 in.	9 in.
	s. d.	s. d.	s. d.
'Seconds'	2 8½	3 10	6 1
'Best'	2 11	4 2½	6 9½
'Best Tested'	3 7¼	5 1¾	8 7
'British Standard'	3 1¼	4 5½	7 3½
'British Standard Tested'	3 8¾	5 5	8 11
Extra for bends 'Best' quality	4 0	5 10	16 11
Extra for junctions 'Best' quality	7 0	9 11	21 4
Cast-iron drain pipes to BSS 437 laid and jointed with molten lead in trench	17 0	25 0	—
Extra for:			
Short lengths	4 0	5 1	—
Bends and extra joints	25 8	68 10	—
Junctions and do.	51 9	118 0	—
Cast-iron gulley trap with 9½ in. x 6½ in. grating and joint	45 2	—	—
Cast-iron rainwater shoe with vertical inlet, inspection door and bedding and joints ...	70 3	—	—
Cast-iron inspection fittings with single branch fitting one side	164 0	—	—

	Per ft. run		
	3 in.	4 in.	6 in.
	s. d.	s. d.	s. d.
Pitch fibre pipes to BS 2760 and laying and jointing in trench (in loads of £60 to £250)	2 6	3 3	6 2

Manhole items:		4 in.	6 in.
		s. d.	s. d.
Brown glazed stoneware straight half-round channels	Each	5 4	7 8
do. ordinary channel bends	,,	11 10	16 11
Three-quarter section curved channel bends with splayed ends	,,	15 0	21 6
Cast-iron heavy galvanised steps	Each		13 0
Bedding and sealing medium weight manhole covers and frames (cost of cover to add)	,,		10 0
do. heavy road covers and frames	,,		13 3

MASON

		Per ft. cube		
		Bath	Portland	York
		s. d.	s. d.	s. d.
Stone and all labours fixed in:				
Ashlar average 6¾ in. on bed ...	Ft. sup.	32 8	37 5	39 0
Moulded string course 9 in. x 6 in.	Ft. run	23 4	31 0	33 10
Moulded cornice 18 in. x 9 in. ...	,,	71 6	77 6	82 6
Weathered and throated cills:				
9 in. x 3 in.	,,	17 10	19 3	20 7
12 in. x 6 in.	,,	35 9	38 0	40 2
Weathered and throated copings:				
12 in. x 3 in.	,,	19 3	21 0	21 9
14 in. x 6 in.	,,	38 0	43 0	44 6
Plinth rubbed top and face size:				
4½ in. x 9 in.	,,	19 6	21 9	21 0
Plain steps, size 12 in. x 6 in. ...	,,	—	—	35 9
,, ,, ,, 14 in. x 2 in. ...	,,	—	—	16 9
Riser, size 2 in. x 4 in. ...	,,	—	—	8 0
2 in. Sawn paving edges squared in random sizes	Yd. sup.	—	—	98 0
Supplied only:				
Templates and cover stones coped edges	Ft. cube	—	—	33 6

ROOFER

	Yd. sup.
	s. d.
Bituminous built-up roofing in two layers of felt, the first layer 45 lb. and the second 55 lb. to BS 747, covered with limestone or granite chippings n.e. ¼ in. thick	10 0
All as above but in three layers, the first and second layers in felt 45 lb.	13 9

	Steel Tees at	
	2 ft. 0½ in. centres	4 ft. 0½ in. centres
2 in. compressed straw building slabs in standard sizes fixed complete with 18G steel tees with fixing clips to steel structure to form roof decking:	s. d.	s. d.
Areas of 50–100 yds. sup.	27 8	21 4
,, 101–250 ,, ...	26 10	20 9
,, 251–750 ,, ...	26 0	20 3
,, Over 750 ,, ...	25 2	19 4
If 16G steel tees are used—Add to above ...	1 5½	9

Welsh Slating		Per square		
		16in.x8in.	18in.x10in.	20in.x10in.
		s. d.	s. d.	s. d.
Laid with 3 in. lap and 2 zinc nails each slate		380 0	408 0	499 0
Additional labours:				
Top edge cutting ...	Ft. run	9	9	9
Square abutment do.	,,	9	9	9
Double course at eaves...	,,	1 3	1 3	1 3
Raking, cutting and waste	,,	11	11	11
1½ in. x ¾ in. slate battening for last	Per sq.	36 9	33 0	29 3

Roof Tiling		Per square		
		Berkshire hand-made	Stafford machine made	Concrete Tiles
		s. d.	s. d.	s. d.
Roof tiling with 10½ in. x 6½ in. tiles laid to a 4 in. gauge, every fourth course fixed with two galvanised nails		264 0	253 0	163 3
1 in. x ¾ in. tile battening for last		39 6	39 6	39 6
Additional labours:				
Top edge cutting	Ft. run	9	9	9
Square abutments do. ...	,,	9	9	9
Raking cutting to hips ...	,,	11	11	11
Eaves course	,,	11	11	11
Half-round ridge and hip tiles	,,	2 11	2 11	2 11

CARPENTER AND JOINER

	Ft. cube			
	Plates	Joists	Rafters & Partitions	Roof trusses
	s. d.	s. d.	s. d.	s. d.
Softwood carcassing, including all waste, nails, hoisting and fixing	17 1	19 10	22 10	27 4

	Per square		
	¾ in.	1 in.	1¼ in.
Boarding and Flooring: (Softwood):	s. d.	s. d.	s. d.
Rough boarding to flats and roof ...	125 0	160 0	194 9
Softwood plain edge flooring cleaned off	155 0	173 6	211 0
Tongued and grooved flooring cleaned off	169 0	195 4	237 0

		s. d.
Extra for 2 in. x 3 in. average firrings	Per sq.	81 7
Herringbone strutting to 2 in. x 8 in. joists	Ft. run	1 10
1 in. gutter boarding and bearers	Ft. sup.	3 9
Raking cutting and waste on 1 in. flooring	Ft. run	9
Composition Boards, etc.:		
⅛ in. hardboard to BS 1142 fixed to vertical battens	Yd. sup.	6 9
½ in. insulation board to BS 1142 do. do.	,,	6 11
1 in. woodwool slabs fixed to flat or sloping soffits	,,	9 7
2 in. compressed straw building slabs in standard sizes fixed to wood bearers to flat or sloping surfaces in quantities of 101 to 250 yds. super	,,	14 8
¼ in. flat asbestos sheeting fixed vertically	,,	11 0

Wood Block Flooring:

		s. d.
1 in. nominal West African mahogany flooring laid herringbone pattern in mastic	Yd. sup.	34 6
1 in. do. Agba	,,	34 6
1 in. do. Sapele	,,	36 3
1 in. do. Beech	,,	39 0
1 in. do. Rhodesian Teak	,,	52 0

Extra for preparing and polishing 2/3 yd. sup.

	Sectional area		
	n.e. 4 in.	4–6 in.	ex. 6 in.
Skirtings:	s. d.	s. d.	s. d.
Softwood skirting with rounded or moulded edge, planted on including all labours in short lengths, mitres, etc., per in. in sectional area	3¾	3¼	2¾

Labours over 6 in.—Mitres = 1 ft. run. Return mould ends = 1 ft. 6 in. run
Sawn grounds nailed 3¼d. ft. run. If plugged + 7d. ft. run.

	Ft. super	
	Large sqrs.	Small sqrs.
Sashes and Frames: (Softwood):	s. d.	s. d.
1½ in. rebated, rounded or moulded fixed	3 7	5 9
2 in. ,, ,, ,, ,, ...	4 0	6 2
Add for hanging on butts ... ... each	2 9	2 9
Double-hung sashes and frames with oak cills, purpose-made and not less than 1 doz. in each order:		
Quantities under 1 doz.—add up to ⅓ according to quantity. (Average size 4 ft. x 5 ft.)	10 8	14 6

Extra cost of boxed mullions 1s. ft. sup.
Extra for hanging sashes with lines, weights and axle pulleys 47s. each.

	Ft. super			
	1¼ in.	1½ in.	1¾ in.	2 in.
Doors: (All-purpose-made) (Softwood)	s. d.	s. d.	s. d.	s. d.
Softwood skeleton framed with hardboard flush both sides (standard internal pattern)	3 7	4 0	4 5	4 10
Framed, ledged and braced	—	5 1	6 2	6 4
Four panel square framed both sides	4 10	5 7	6 7	6 10
Add for each side moulded on last...	6	6	6	6
do. flush framed	1 0	1 1	1 3	1 3
do. bead and butt do.	1 3	1 4	1 6	1 6
do. bolection moulded do.	1 6	1 6	1 6	1 6
do. raised and fielded do.	—	2 4	2 4	2 4

Rebated and beaded meeting stile 4d. ft. run.
Dwarf doors add up to 50 per cent according to size.

	Sectional area		
	n.e. 6in.	6-12 in.	ex. 12in.
Window and Door Linings and Frames:	s. d.	s. d.	s. d.
Softwood linings per inch of sectional area	4½	4	3½
Add for cross-tongueing	—	1	¾
Frames, including rebating and once moulded or equivalent of two run labours, per sectional inch	4	3½	3

Transomes and cills plus 10 per cent on frames.
Additional run labours plus 1½d. per ft. run.

	Per ft. run			
	Sectional area			
	1 in.	2 in.	4 in.	6 in.
Softwood Bearers, Fillets and Mouldings, etc.:	s. d.	s. d.	s. d.	s. d.
Wrot grounds, bearers, fillets, etc.	4½	7	11	1 3
Mouldings, picture rails, architraves, etc.	5	7½	11½	1 4
Framed legs and bearers or similar	9	11	1 4	1 10
Glazing beads, mitred and bradded	6	8½	—	—
Add for plugging	6	6	6	6
Add for brass cups and screws ...	2½	2½	2½	2½

	Thickness			
	¾ in.	1 in.	1¼ in.	1½ in.
Shelving (Softwood):	s. d.	s. d.	s. d.	s. d.
Slat shelving 2 in. wide spaced 1 in. between ... ... Ft. sup.	2 0	2 3	2 8	3 1
9 in. shelving ... ... Ft. run	2 0	2 4	2 10	3 6
Shelving over 9 in. wide ... Ft. sup.	2 7	2 11	3 7	4 2

1 in. x 2 in. chamfered bearers in short lengths, plugged, each 2s. 3d.

	Ft. super	
	1 in. treads	1¼ in. treads
Staircases (Softwood):	s. d.	s. d.
Treads and risers with moulded nosings, glued, blocked and bracketed on carriages	6 3	7 0
Cross-tongued winders	8 3	9 4

		s. d.
Strings, framed	Ft. run	4 9
Housings for treads and risers	Each	3 0
1 in. x 1 in. sq. balusters framed each end on rake ...	,,	4 1
3½ in. x 3½ in. sq. framed newel	,,	5 2
Mahogany handrail, average 3 in. x 3 in.	Ft. run	8 10
,, ,, ramped	,,	26 0

FIXING ONLY IRONMONGERY

All to Softwood:	Each s. d.		Each s. d.
Barrel bolts	1 9	Rim locks	5 2
Flush bolts	6 3	Mortice locks	11 0
Sash fasteners	3 4	Overhead door springs...	14 6
Casement fasteners ...	2 3	Patent floor springs and oil	36 3
Cupboard locks	5 0		

FOUNDER AND SMITH

Fabricated steelwork of basis section including hoisting and fixing at various levels:		s. d.
Rolled steel joists	per cwt.	90 0
Compound girders	,,	97 0
Stanchions	,,	102 3
Compound stanchions	,,	108 0
In roof work—trusses and purlins	,,	122 0
(Average prices, not for awkward work)		
Cleats, brackets, packing pieces, etc., in connections, including rivets and bolts	,,	147 6
Wrot iron framed cat ladders	,,	148 0
		to 168 0

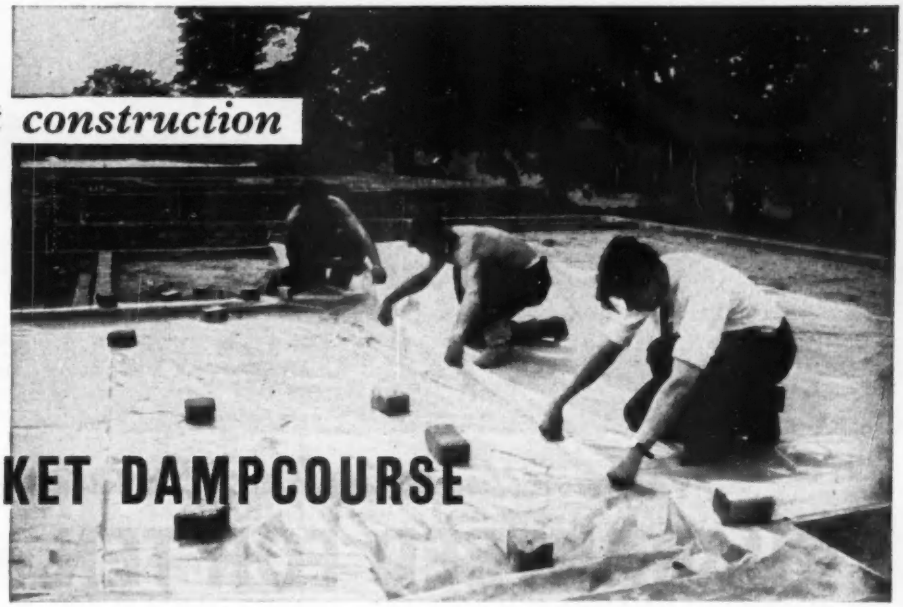
PLUMBER

		Per ft. run		
		3 in.	4 in.	5 in.
Cast iron rainwater goods: (Under 5 cwt. lots):		s. d.	s. d.	s. d.
Half-round gutter jointed in red lead and bolted and fixed with iron brackets		3 2	3 9	4 7
Extra for stop ends	each	2 5	3 0	3 11
do. angles or outlets	,,	5 10	6 2	7 3
O.G. gutter of ⅛ in. metal fixed as above		3 8	4 2	4 11
Extra for stop ends	each	2 9	3 4	4 4
do. angles or outlets	,,	6 7	6 9	8 1
		2 in.	3 in.	4 in.
Rainwater pipe jointed in red lead and tow fixed to brickwork with pipe nails and distance pieces: ⅛ in. metal		4 3	4 10	6 3
Extra for shoes	each	5 0	6 10	9 2
do. bends	,,	5 9	8 1	10 4
do. junctions	,,	7 9	11 0	14 1
Cast iron soil and waste pipes: (Under 5 cwt. lots):		2 in.	3 in.	4 in.
Soil, waste or ventilating pipes with caulked joints fixed to brickwork with pipe nails and distance pieces: 13/64 in. metal		6 2	7 3	9 6
Extra for bends	each	13 7	16 2	20 2
do. junctions	,,	16 10	23 3	29 2
do. oval access door to any fitting	,,	16 6	16 6	21 3
Extra cost for type 'E' holderbat fixing and cutting and pinning to brickwork	ft. run	1 6	1 7	1 7½

In house-raft construction

specify

BCL BLANKET DAMPCOURSE



BCL Blanket Dampcourse (0·005″ thick BCL polythene film) is the answer to the problems of moisture penetration into concrete house-rafts. It stops water rising through the raft into the house and, by preventing water-absorption by the concrete, removes the danger of the raft being damaged by frost or sulphate.

Geo. Wimpey & Co. Ltd. make extensive use of BCL Blanket Dampcourse. This picture, taken with their kind permission, shows the film laid in position before the concrete is placed.

BCL Blanket Dampcourse is

—**waterproof**—virtually eliminates moisture-absorption by the concrete ;

—**rotproof and chemically inert**—will not break down or lose efficiency ;

—**tough and flexible**—will not easily break or tear when being laid ;

—**very easy to handle**—the film is light in weight and is simply laid over the fill before the concrete is placed ;

—**cheap**—material and labour-costs are very low.

For further information, send today for a copy of the free illustrated booklet, "BCL Blanket Dampcourse", which incorporates a report on the tests carried out with this material by the Industrial Research Laboratories of the City of Birmingham Public Works Department.

BRITISH CELLOPHANE LIMITED* PLASTIC FILMS DIVISION

HENRIETTA HOUSE, 9 HENRIETTA PLACE, LONDON, W.1. MUSEUM 8311

*a member of the Courtaulds group of companies

To: BRITISH CELLOPHANE LIMITED, Plastic Films Division,
Henrietta House, 9 Henrietta Place, London, W.1.

Please send me, free of charge and without obligation, your booklet "BCL Blanket Dampcourse"..... Please tick as appropriate

Please ask your representative to call.....

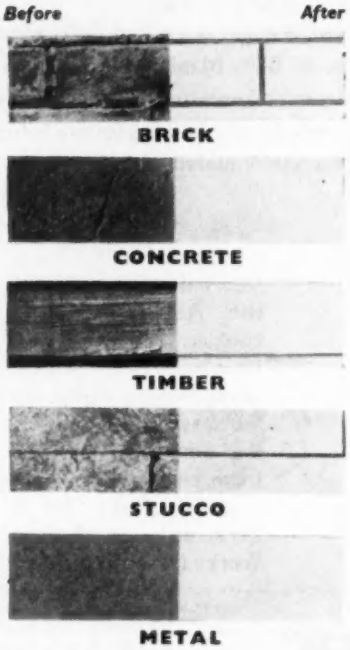
NAME.....

ADDRESS.....

B75

Now available in Great Britain and

GUARANTEED FOR TEN YEARS



Proved on thousands of applications throughout the U.S.A. Kenitex provides long lasting protection, decoration and insulation to external surfaces at a remarkably low cost. It is guaranteed against chipping, cracking and peeling for ten years.

Kenitex is a heavy-bodied texture coating based on asbestos, mica, perlite and titanium, which is applied with high pressure spray equipment by specially trained Kenitex applicators.

KENITEX gives an attractive uniform textured finish to Common Flettons — overcomes shortage of facing bricks.

KENITEX hides cracks and holes and ugly flaws.

KENITEX is moisture and weatherproof, yet allows the walls to "breathe".

KENITEX offers high resistance to most acids and alkalis.

KENITEX is flexible. Applied to 16 gauge galvanised sheet at the rate of 60 square feet per gallon it will not crack when bent over a 1" radius.

KENITEX will dry to the touch in approximately 8 hours and becomes finally set in from 3 to 4 weeks.

KENITEX is available in 12 attractive colours (including white).

WANTED
Licensed Applicators

Enquiries are invited from firms to become Licensed Kenitex Applicators

Kenitex applicators are now being appointed to give complete national coverage. Write for full details

KENITEX TEXTURED COATING LIMITED

Spirella House, Oxford Circus, London, W.1.

Telephone: Regent 3605.

Works: Gamlingay, Sandy, Beds.

	Soakers	Flats	Gutters, valleys, etc.	Flashings	Stepped Flashings
External leadwork:	s. d.	s. d.	s. d.	s. d.	s. d.
(Over 1 ton):					
Milled lead and labour in per cwt.	147 4	171 2	182 10	188 10	199 0

Labours, etc.:	Double welt	ft. run	1 0
	Copper nailing: Open	,,	7
	Close	,,	1 0
	Soldered seam	,,	6 7

		2 in. x 10 lb.	3 in. x 15 lb.	4 in. x 19 lb.
Lead pipes: (Over 1 ton):		s. d.	s. d.	s. d.
Soil, waste and ventilating pipes, fixed to walls with plain lead tacks and brass screws	per ft.	11 1	14 7	19 1
Extra for: Lengths under 4 ft. ...	,,	3 0	3 6	4 6
Bends	No.	12 6	23 9	24 10
Wiped soldered joints	,,	20 0	29 7	33 7
,, branch joints	,,	24 4	35 0	39 3

	Per ft. run					
	½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Lead pipes including running joints:	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Main in trench ...	3 6	5 3	7 9	9 9	12 5	17 3
do. fixed with hooks	4 2	6 1	9 1	11 3	14 1	19 3
Service and do. ...	3 6	5 2	7 2	8 7	10 10	14 0
Waste and do. ...	2 9	4 0	5 9	6 10	8 8	11 4
Extra for lengths under 4 ft. ...	9	1 0	1 6	1 9	2 0	2 7
Soldered stop ends ... ... No.	2 6	3 0	3 9	4 6	5 2	6 8
do. joints to fittings ... ,,	6 6	9 2	11 0	13 4	16 3	19 9
do. branch joints... ... ,,	7 2	10 1	12 2	14 10	17 11	21 8
Brasswork:						
Union with red lead joint to iron and soldered joint to lead ... ... ,,	12 0	14 10	18 6	22 9	27 10	40 6
Stop-cock and soldered joints... ... ,,	21 0	30 8	43 7	70 0	89 6	167 5
Bib-cock do. ,,	18 6	24 9	—	—	—	—
Ball-valve do. ,,	18 0	30 4	43 5	71 7	89 6	—
Steel tubing:						
Galvanised tubing Class C laid in trench	2 4	2 6	2 10	4 1	5 6	6 6
do. Class B fixed to walls, etc. ...	2 7	3 0	3 4	4 5	6 2	7 1
Extra for bends No.	5 0	5 9	7 7	9 10	11 8	17 2
Tees ,,	5 8	6 9	8 2	10 10	12 10	18 8
Red lead joints ,,	3 6	3 9	4 1	4 7	5 1	5 7
Copper tubes and fittings: gauge	19	19	18	18	18	17
Tubes and fixing to walls	2 7	3 4	4 6	5 5	6 4	9 2
Extra for lengths under 4 ft. ...	7	9	11	1 0	1 3	1 6
Brass capillary type fittings:						
Couplings—copper to copper ...	3 8	4 4	6 9	8 9	11 2	15 3
Bends— do. ...	5 10	7 1	8 11	11 7	17 2	32 3
Tees— do. ...	8 7	9 11	14 2	19 2	26 3	36 4
Stop cocks	23 7	33 1	60 2	101 2	152 3	250 4
Tank connectors ...	4 9	5 4	8 1	10 2	14 3	18 4

PLASTERER

		s. d.
Expanded metal lathing ⅜ in. mesh 24 gauge ... ... (not including hangers for suspended work)	Yd. sup.	7 9
Lime Plastering: Render, float and set	,,	9 5
Sirapite Plastering: Render and set	,,	7 2
Portland Cement: Plain face trowelled smooth ...	,,	8 9
Keenes: Render in cement and lime and set in Keenes	Yd. sup.	9 11
Extra for dubbing out ½ in. thick 1/11, ¼ in. thick 3/4 ⅜ in. Plasterboard and setting coat in Sirapite ...	,,	8 11
Narrow widths: Up to 3 in. wide add 100 per cent. Do. 6 in. do. 75 per cent. Do. 6 in. to 12 in., add 33⅓ per cent.		
Labours: Arris 4½d. Fair edge 6½d. Quirk 9½d.		
Plaster Moulded Cornices: 6 in. girth and under ...	Ft. run	3 1
Over 6 in. girth, add 4d. per in.		
Tyrolean Rendering with three coat Cullamix finishing	Yd. sup.	11 8
Wall Tiling: 6 in. x 6 in. white glazed ¼ in. thick ...	,,	45 0
Extra for rounded angle or birdsbeak	Ft. run	4
do. rounded edge tile	,,	5

GLAZIER

	Wood sashes with beads or putty s. d.
Clear sheet glass ordinary quality:	
18 oz.	1 4½
24 oz.	1 7
26 oz.	1 9½
32 oz.	2 2
Obscured glass:	
⅛ in. Figured rolled White group 1	1 9
,, ,, ,, group 2	2 0¾
,, ,, Standard tints	2 6¾
⅛ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and luminating group 3	2 2½
¼ in. Wired Cast	2 6
¼ in. Georgian Wired Cast	2 6¼
¼ in. Polished Plate Glass, G.G. Quality:	
In plates not exceeding 2 ft. sup.	6 8½
,, ,, ,, 5 ft. sup.	7 8½
,, ,, ,, 45 ft. sup.	8 10½
,, ,, ,, 100 ft. sup.	9 5¼
Extra on all above:	
For glazing with screw beads ft. sup.	5½
(Excepting polished plate over 12 ft. super on which no extra is charged)	
For glazing with metal sashes with putty	1
Glazing bedded in washleather ... ... Ft. run	8½

PAINTER

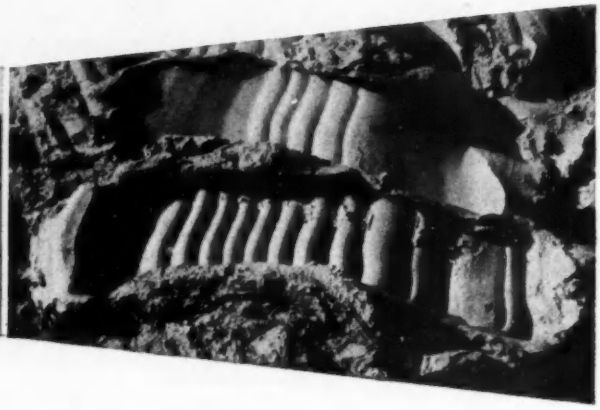
		s. d.
Limewhiting: Prepare and two coats on brick ...	Yd. sup.	1 2
Whitening: Prepare and two coats on plaster ...	,,	1 5
Washable distemper: Prepare and two coats on plaster	,,	1 11
Emulsion paints: Prepare and two coats on plaster ...	,,	3 1

Painting with oil colours:	Yd. super 1 coat	2 coats	3 coats
	s. d.	s. d.	s. d.
Prepare and paint on plaster	2 3	4 3	6 4
On Steel:			
Plain surfaces	1 10	3 7	5 5
Roof trusses...	2 4	4 7	6 11
Metal casements divided into squares ...	3 4	6 8	10 0
do. divided into large squares ...	2 7	5 0	7 6
Opening edges ... ... Each	8	1 3	1 10
Small pipe ... ... Yd. run	6	1 0	1 5
Rainwater pipe ... ... ,,	1 0	1 11	2 9
Gutter ... ... ,,	1 4	2 6	3 8

	Knot prime and stop	Add for each extra coat
On Woodwork:	s. d.	s. d.
General surfaces ... ... Yd. sup.	2 10	2 3
On work not exceeding 3 in. girth ... Yd. run	4½	3½
Add to last for every additional 3 in. in girth	3¼	2¾
Sash squares on one side ... ... Doz.	5 6	4 6
Large ,, ,, ,, ... ,,	8 6	8 0
Opening edges ... ... No.	9	8

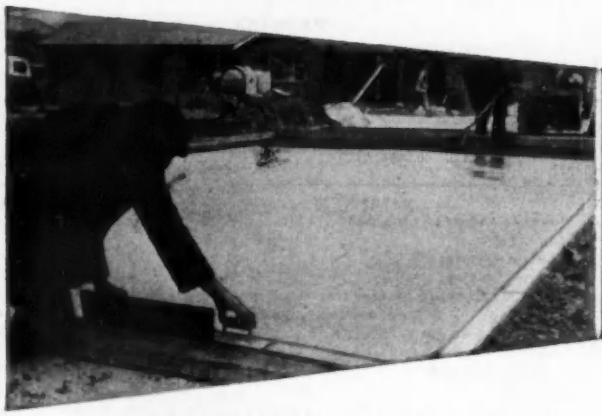
		s. d.
Oiling Hardwood: Two coats with linseed oil... ...	Yd. sup.	1 4
Creosote: Two coats on woodwork	,,	1 7
Polishing—New Work:		
Staining and wax polishing hardwood	Ft. sup.	1 1
Staining, bodying in and full french polishing on hardwood	,,	2 6
Old Work previously polished:		
Preparing old work and repolishing	,,	1 2
Stripping, preparing and repolishing	,,	3 1
Papering:		
Preparing, sizing and hanging lining paper	per piece	10 7
do. do. Wallpaper, p.c. 10s.	,,	19 8

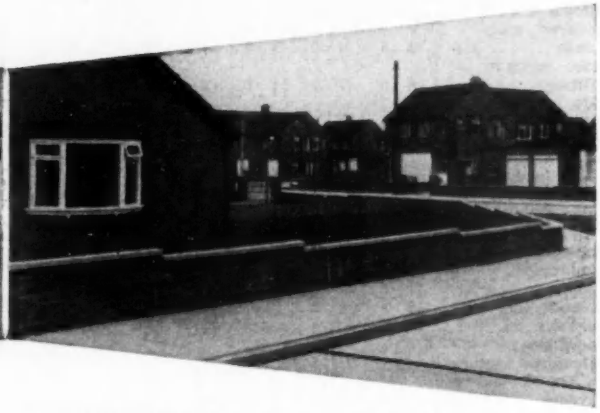
INSIGHT ON SITE with ENTRAINIT



DEVELOPED AND PROVED BY HEDLEY RESEARCH Hedley scientists perfected Entrainit at the Longbenton research laboratories . . . and proved it on sites nationally as well as in such projects as these Longbenton extensions.

PERFECT MIX—EVERY TIME Look at the mix you get with Entrainit! Fattier . . . much more workable . . . giving a strong and durable bond. No wonder Entrainit is fast replacing lime and liquid additives!





DURABLE CONCRETE . . . Entrainit used at only ¼ oz. (less than 1d.) for 1 cwt. cement makes placing and full compaction easier and gives protection against scaling and water penetration caused by the damaging effects of salt and frost.

THE FINAL PROOF Contractors responsible for the development of sites like this have proved for themselves the effectiveness of Entrainit in mortar, plaster and concrete. Only 1 oz. is used per 1 cwt. cement in mortar and plaster and ¼ oz. per 1 cwt. cement in concrete; it costs at most 3d. per oz. It comes in handy 28 lb. cases (there is a 2 lb. trial size too) . . . so it's easy to store and transport.

For further details about Entrainit, fill in this coupon and post to: Bulk Products Division, Thomas Hedley & Co. Limited, Newcastle upon Tyne, 3.

NAME .....

ADDRESS .....

.....

Change to

Entrainit

and save money on every mix!

OBTAINABLE FROM BUILDERS' MERCHANTS

THE BUILDER CURRENT PRICES

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. It is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

		£	s.	d.
Pit Ballast	per yd.	1	5	5
Pit Sand	,,	1	3	8
Washed Sand	,,	1	6	9
¾ in. Shingle	,,	1	4	3
¾ in. Broken Brick	,,	1	0	9
Pan Breeze	,,	1	0	6
Fine or Coarse Foamed Slag Aggregate	per ton	3	8	0

2 yds. of fine and 2.6 yds. of coarse per ton.

CEMENT, etc.

Including non-returnable jute sacks or paper bags.

		£	s.	d.
Best British Portland Cement. Standard Specification delivered Charing Cross area.				
6-ton loads and upwards, site	per ton	5	10	0
1 to 6 tons, site	,,	6	2	0
Rapid-Hardening Cement in 6-ton loads and upwards to site	,,	6	0	6
1 to 6 tons do. site	,,	6	12	6
Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.				
Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices.				
Red, Buff or Khaki Colocrete in 6-ton lots	,,	8	10	0
Other colours according to colour.				
In 4-ton lots from 308s. 0d. to 778s. 0d. per ton.				
White Portland Cement	,,	13	15	6
Under 1 ton	per cwt.		16	9
417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards	per ton	7	2	6
Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.				
Cullamix Tyrolean Finish, £11 8s. 0d. to £14 3s. 0d. (1-ton loads and upwards.)				
Lightning and Ciment Fondu Brands High Aluminous cement, 6-ton lots and up	,,	15	14	6
Stourbridge Fireclay, 6-ton loads at Railway Depot, London	,,	6	19	0
Stourbridge Fireclay, 6-ton loads (London sites)	,,	7	7	0
Moler Mortar Powder for Flue Bricks (London sites)	per cwt.	1	10	0

BRICKS

Full Loads.		£	s.	d.
First Hard Stocks	per 1,000	15	19	6
Second Hard Stocks	,,	14	3	6
Mild Stocks (Kiln Burnt)	,,	10	5	0
Mild Stocks	,,	10	0	0

All loaded free into lorry at the works. The question of haulage is still very difficult and prices must be obtained from job to job.

2½ in. Nominal Fletton Bricks to sites in W.C. district:				
Commons	,,	6	2	0
Cellular Commons	,,	6	2	0
Keyed do.	,,	6	4	0
Rustics	,,	8	2	0
Cellular Rustics	,,	8	2	0
Single Bullnose Commons	,,	8	4	6
Sandfaced	,,	9	2	0
Tuscans	,,	9	17	0
Saxons	,,	10	5	0
Golden Buffs	,,	10	12	0
Dapple Light Facings	,,	10	19	6
Heather Facings	,,	10	15	0
Best Blue Pressed Staffs (London stations)	,,	30	2	6
do. do. (London sites)	,,	30	14	0
do. Bullnose (London stations)	,,	31	11	6
do. do. (London sites)	,,	31	13	0
Blue Wire Cuts (London stations)	,,	27	5	0
do. do. (London sites)	,,	27	6	6
Midhurst Lime Bricks (London sites)	,,	11	0	6
Uxbridge Whites (London sites)	,,	10	19	0
Special Purpose Sandlime Bricks (London sites)	,,	8	12	0
Best Stourbridge Fire Bricks:				
2½ in. (London stations)	,,	30	12	3
2½ in. (London sites)	,,	31	1	0
3 in. (London stations)	per 1,000	36	14	9
3 in. (London sites)	,,	37	5	3
2⅞ in. Moler Flue Bricks (London sites)	,,	31	10	0
2⅞ in. Machine-made Sandfaced Red Facings (London sites)	,,	17	11	6
2⅞ in. Machine-made Multi Red Facings (London sites)	,,	17	16	6
2⅞ in. Hand-made Sandfaced Red Facings (London sites)	,,	19	15	0
2⅞ in. Hand-made Sandfaced Multi-Colour Facings (London sites)	,,	19	15	0
Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites)	,,	19	13	0
Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites)	,,	19	13	0
Rubber Bricks for gauged arches (London sites)	,,	49	1	3
2⅞ in. Surrey Clamp Burnt Multi Stock Facings (London sites)	,,	15	16	6
2⅞ in. Surrey Kiln Burnt Multi Stock Facings (London sites)	,,	17	7	0
Glazed Bricks (London sites), White, Ivory, Brown:				
Stretchers	,,	64	0	0
Headers	,,	63	0	0
Quoins, Bullnose and 4½ in. Flats	,,	80	0	0
Double Stretchers	,,	85	0	0
Double Headers	,,	77	10	0
One side and two ends	,,	87	0	0
Two sides and one end	,,	89	10	0
Splays and Squints	,,	83	0	0

Cream and Buff, £3 extra over White. Other colours, hard glaze, £8 10s. 0d. extra over White. All above prices plus 40% for Best quality and plus 40% less 10% for Second quality.

PARTITION SLABS, etc.

Delivered Central London Area. (W.C. District.)

HOLLOW CLAY PARTITION BLOCKS (Keyed)				
Minimum lorry loads				
*2½ in. 140 yds.	per yd. sup.		4	6
BUILDING BLOCKS (Keyed)				
*3 in. (6 cavity) 110 yds.	,,		5	7
*4 in. (6 cavity) 90 yds.	,,		7	0
6 in. (8¾ in. × 5⅞ in.) 1,250 blocks	per 1,000	27	13	0
* Half blocks at no extra charge.				
CLINKER CONCRETE				
2 in. 100 yds.	per yd. sup.		3	9
2½ in. 85 yds.	,,		4	4
3 in. 75 yds.	,,		5	3
4 in. 55 yds.	,,		6	5
CRANHAM TERRA COTTA				
2 in.	,,		6	9
2½ in.	,,		7	9
3 in. Load bearing quality	,,		8	9
4 in. do. do.	,,		10	9
MOLER PARTITION BLOCKS				
2 in. 150 yds.	,,		11	3
2½ in. 120 yds.	,,		14	0
3 in. 100 yds.	,,		15	0
4 in. 90 yds.	,,		17	0
LIGHTWEIGHT CONCRETE BUILDING AND PARTITION BLOCKS OF VARIOUS SOURCES OF MANUFACTURE				
2 in. 100 yds.	per yd. sup.		5	4
2½ in. 80 yds.	,,		6	5
3 in. 65 yds.	,,		7	5
4 in. 50 yds.	,,		9	4
4½ in. 44 yds.	,,		10	2
6 in. 33 yds.	,,		13	5
THERMALITE-YTONG PARTITION BLOCKS				
2½ in. 144 yds.	,,		7	0
THERMALITE-YTONG LOAD-BEARING INSULATING BLOCKS				
3 in. 120 yds.	per yd. sup.		8	5
4 in. 90 yds.	,,		11	0
5 in. 72 yds.	,,		13	9
6 in. 60 yds.	,,		16	6
8½ in. 42 yds.	,,	1	3	8
FLOOR BLOCKS AND FILLER TILES				
Floor Blocks 12 in. × 12 in. delivered in full lorry-loads:				
3 in.	per 1,000	34	16	0
4 in.	,,	37	8	0
5 in.	,,	44	17	0
6 in.	,,	51	4	0
7 in.	,,	62	18	0
8 in.	,,	73	11	0
9 in.	,,	81	0	0
10 in.	,,	89	15	0
Filler Tiles in multiples of 10 tiles per 1,000 multiples:				
12 in. × 3 in. × ⅞ in.	,,	42	15	0
12 in. × 4 in. × ⅞ in.	,,	73	15	0
10 in. × 5 in. × ⅞ in.	,,	73	15	0

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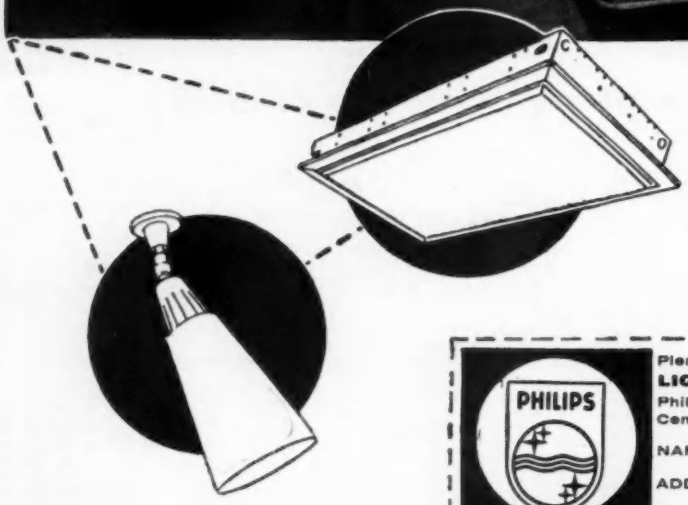
PHILIPS PUT IT IN A BETTER LIGHT

West End Overseas Branch, Midland Bank, Piccadilly, London.



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PHILIPS LIGHTING DESIGN SERVICE

STONEWARE DRAIN PIPES, etc.

Glazed Stoneware Standard List (November, 1956).

		4 in.	6 in.	9 in.
Pipes, 2 ft. lengths	per ft.	1/8	2/6	4/6
Bends	,,	5/–	7/6	20/3
Junctions	,,	8/4	12/6	27/–
Gullies with 4 in. outlets	,,	12/6	13/9	22/6

The following are the percentages to be added to the Standard List (November, 1956) prices delivered London Area.

Delivered ex Merchants Wharf or Depot.

	Over 2 tons	Over 100 pieces Under 2 tons	Under 100 pieces Under 2 tons
Best Quality ...	–10%	+5%	+12½%
BSS Best Quality ...	+10% –10%	+10% + 5%	+10% +12½%
Tested Quality ...	+37½% –10%	+37½% + 5%	+37½% +12½%
BSS Tested Quality ...	+47½% –10%	+47½% + 5%	+47½% +12½%

		£	s.	d.
3 in. Land Drain Pipes (in 12 in. lengths)	per 1,000	12	4	0
4 in. do. do.	,,	16	7	0
6 in. do. do.	,,	33	13	0
9 in. do. do.	,,	63	12	0

DAMP COURSE

		£	s.	d.
Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area	per yd. sup.		3	5
Asbestos base do. 7 lb. per yd. sup. do. do.	,,		5	2
Lead lined bitumen do. 9¼ lb. per yd. sup. do. do.	,,		12	2
18 in. × 9 in. British damp course slates	per 1,000	43	8	11
14 in. × 9 in. do. do.	,,	32	8	2
9 in. × 9 in. do. do.	,,	18	18	9
18 in. × 4½ in. do. do.	,,	19	19	9
14 in. × 4½ in. do. do.	,,	15	18	3
9 in. × 4½ in. do. do.	,,	10	14	3

STONE

		£	s.	d.
Bath Stone				
Monks Park	per ft. cube		10	3
St. Aldhelm Box Ground	,,		11	6
Delivered in railway trucks at South Lambeth B.R. Western Region.				
Doulting Stone Random Blocks. Delivered London area	,,		10	10
Beer Stone. Delivered London area	,,		10	6
Portland Stone—				
Brown Whitbed in random blocks, 20 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region	,,		9	10
Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots.				
9 in. × 3 in. Rubbed, weathered, throated and stolled cills	per ft. cube	4	5	10
12 in. × 6 in. do. do. do.	,,	3	1	2
12 in. × 3 in. Plain coping, twice throated	,,	2	7	6
12 in. × 3 in. Weathered and twice throated coping	,,	3	3	3
14 in. × 6 in. do. do. do.	,,	2	17	0
4½ in. × 9 in. Plinth rubbed on top and face ...	,,	2	11	0
3 in. sawn two sides Slabs, random sizes ...	per ft. sup.		9	1
Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ...	per ft. cube	1	11	3
do. do. fair one edge for fair faced brickwork	,,	1	17	0
Hard York—				
12 in. × 2 in. Square Steps, rubbed on top and edge	per ft. run		11	0
14 in. × 3 in. Round-nosed Steps, rubbed on top and front	per ft. cube	2	18	3
12 in. × 6 in. Plain Steps, rubbed top and front	,,	2	11	0
2 in. Rubbed and Jointed Paving, given sizes ...	per ft. sup.		10	3
2 in. Sawn Paving, edges squared, in random sizes	per yd. sup.	3	12	0

TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000.

	£	s.	d.
Machine-made Pantiles and French pattern Tiles from Lincolnshire district	29	19	0
Hand-made Pantiles Berkshire district	55	18	0
Hand-made Double Roman Bridgwater district ...	64	4	1
Hand-made 10½ × 6½ tiles Berkshire district	15	18	3
Machine-made 10½ × 6½ Staffordshire district	15	2	6
Hand-made Hip and Valley tiles per doz.	1	11	10
Machine-made Hip and Valley tiles do.	1	10	1
Concrete tiles 10½ × 6½	8	10	0
do. Interlocking (49S)	19	16	6

NOTE.—Breakage in transit, purchasers' responsibility.

SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate station. Per 1,000 actual.

	£	s.	d.
24 × 12	155	10	0
22 × 12	123	10	0
22 × 11	111	10	0
20 × 12	104	10	0
20 × 10	102	0	0
18 × 10	69	10	0
18 × 9	61	0	0
16 × 10	54	8	10
16 × 8	42	12	4

NOTE.—Breakage in transit, purchasers' responsibility.

TIMBER

			£	s.	d.
Softwood					
Joinery quality	Ex Wharf	per standard	£115 to £140		
Carcassing quality	do.	,,	£94 — £98		
1 in. Tongued and Grooved Flooring	do.	,,	£110	0	0
Hardwood			£	s.	d.
Mahogany—African S.E.	do.	per ft. cube	1	10	0
do. Honduras S.E.	do.	,,	3	5	0
Oak European S.E.	do.	,,	2	10	0
do. Japanese S.E.	do.	,,	3	0	0
do. English Logs sawn ...	do.	,,	2	0	0
Teak 8 in. average S.E. ...	do.	,,	3	17	6
Walnut African Logs sawn ...	do.	,,	1	2	6
Plywood					
6 mm. (¼ in.) Birch Plywood B/BB		per 100 sq. ft.	4	4	6
6 mm. Israeli Gaboon do. B/BB exterior grade WBP (AX100)		,, ,,	4	5	3
18 mm. Birch Blockboard		,, ,,	9	10	0
¾ in. Douglas Fir Plywood 96 in. × 48 in. Exterior grade WBP (AX100) solid two sides		,, ,,	9	11	0

DOORS (in Lots I–II)

Delivered London area.

		£	s.	d.
1½ in. 4 Horizontal Panel. Pattern 4 in. deal				
2 ft. 0 in. × 6 ft. 6 in.	each	1	16	0
2 ft. 3 in. × 6 ft. 6 in.	,,	1	17	6
2 ft. 6 in. × 6 ft. 6 in.	,,	1	18	6
2 ft. 9 in. × 6 ft. 6 in.	,,	2	0	6
2 in. do. but top panel open. Pattern 4 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	9	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	11	6
2 in. 2 Panel top panel open. Pattern 2 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	3	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	5	0
1½ in. Plywood Faced Flush Doors to BS 459, Part 2A				
2 ft. 0 in. × 6 ft. 0 in.	,,	1	12	3
2 ft. 0 in. × 6 ft. 6 in.	,,	1	12	3
2 ft. 3 in. × 6 ft. 6 in.	,,	1	13	9
2 ft. 6 in. × 6 ft. 6 in.	,,	1	15	3
2 ft. 9 in. × 6 ft. 6 in.	,,	1	18	0
1½ in. Hardboard Faced Flush Doors.				
2 ft. 0 in. × 6 ft. 0 in.	,,	1	5	6
2 ft. 0 in. × 6 ft. 6 in.	,,	1	6	0
2 ft. 3 in. × 6 ft. 6 in.	,,	1	6	6
2 ft. 6 in. × 6 ft. 6 in.	,,	1	8	6
2 ft. 9 in. × 6 ft. 6 in.	,,	1	9	6

SUNDRIES

Delivered London area.

		£	s.	d.
1 in. Wood Wool Slabs 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (89 yds. to 1 ton)	per yd.		6	2
1½ in. do. (67 yds. to 1 ton)	,,		8	0
2 in. do. (52 yds. to 1 ton)	,,		9	9½
2½ in. do. (45 yds. to 1 ton)	,,		11	3
3 in. do. (39 yds. to 1 ton)	,,		12	7½
Quantities under 1 ton add 1d. per ½ in. of thickness.				
½ in. imported or home produced insulation Board, quantities over 5,000 sq. ft.	per 100 sq. ft.	2	2	6
⅛ in. Hardboard do.	,,	1	17	6
3/16 in. do. do.	,,	2	4	6
2 in. Compressed Straw Slabs, roofing quality. 6 ft., 8 ft., 9 ft., 10 ft. and 12 ft. × 4 ft.				
50–100 yds.	per yd. sup.		11	4
101–250 yds.	,,		10	10
251–750 yds.	,,		10	1
Over 750 yds.	,,		9	4
2 in. do. for partitions 4d. per yd. cheaper.				
3/16 in. Asbestos Flat Building Sheets...	,,		4	3½
¼ in. do. do. do.	,,		6	0
Roofing Felt 1-ply	,,		1	9
do. 2-ply	,,		2	2¼
Best Scotch Glue in slabs	per ½ cwt.	5	8	0
do. pearl	,,	5	8	0
Croid Glue	28 lb.	2	6	0
Impact Adhesive	per gall.	2	12	0
Cut Nails 3 in. (1-ton lots)	per ton	78	10	0
do. 4 in. and up (1-ton lots)	,,	75	0	0
Wire Nails 3 in. (4-cwt. lots)	per cwt.	3	13	5
do. 4 in. and up (4-cwt. lots)	,,	3	12	10

METALS

STEEL JOIST, ETC.

		£	s.	d.
Basis Joists—				
6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in., 12 in. × 6 in., plain cut to lengths delivered London area	per ton	47	15	0
Extra for sizes				
3 in. × 1½ in. 4 in. × 1¾ in.	,,	3	10	0
3 in. × 3 in.	,,	2	10	0
4 in. × 3 in.	,,	2	5	0
10 in. × 4½ in.	,,	1	10	0
5 in. × 2½ in. 5 in. × 3 in.	,,	1	15	0
4¾ in. × 1¾ in.	,,	3	5	0
5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. ...	,,		15	0
6 in. × 3 in. 24 in. × 7½ in.	,,	2	0	0
6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. }	,,	1	5	0
9 in. × 4 in. 10 in. × 5 in.				
12 in. × 5 in. 22 in. × 7 in.	,,	1	0	0

METALS—*continued*

		£	s.	d.
9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in.				
14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in.	„		10	0
15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in.				
16 in. × 8 in. 18 in. × 6 in. 18 in. × 7 in.	per ton		10	0
18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in.				
Steel angles average price	„	48	15	0
Steel tees average price	„	49	15	0
Fabricated work delivered London—				
R.S. Joists cut and fitted	„	64	15	0
Compound girders	„	69	5	0
Stanchions	„	74	15	0
Compound stanchions	„	79	5	0
In Roof Work—Trusses and Purlins	„	89	10	0
Average prices not for awkward work.				
Angle cleats and ⅜ in., ¾ in. and ⅞ in. bolts average price London area	per cwt.	5	10	0

Ferro-Concrete Bars and Fabric

		£	s.	d.
Mild Steel Ferro-Concrete Bars British manufacture to BSS 785 ex. Mills. 1 in. diameter and upwards delivered nearest London station ...	per ton	40	10	0
do. do. ex. London Stock do. delivered London site	„	49	10	0
Extras—				
½ in. diam.	per ton extra	8	12	6
9/16 in. do.	„	6	12	6
⅝ in. do.	„	4	12	6
¾ in. do.	„	3	2	6
⅞ in. do.	„	1	10	0
⅞ in. and ⅞ in. diam.	„		15	0
Steel wire mesh reinforcing fabric to BSS 1221A.				
Ref. No. 106 ... ... 7.88 lbs.	per sq. yd.		5	1¾
„ „ 109 ... ... 4.71 „	„		3	0½
„ „ 113 ... ... 1.83 „	„		1	8½
„ „ 122 ... ... 7.32 „	„		4	9½
„ „ 125 ... ... 4.32 „	„		2	10

Mild Steel Tubes

Tubes to BSS 1387. Fittings BSS 1740.

Basic List Prices

		¼ in.	⅜ in.	½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Tubes	per ft.	9¾	10	1/–	1/2½	1/9	2/3	2/8	2/9
Bends	each	1/7	1/9	2/–	2/6	3/8	5/5	6/2	10/7
Elbows, square	„	1/8	1/10	2/2	2/6	3/–	4/4	5/2	8/6
do. round ...	„	1/10	2/–	2/4	2/10	3/4	4/8	5/8	9/4
Tees	„	2/–	2/2	2/6	3/2	3/8	5/–	6/2	10/2
Crosses... ...	„	4/4	4/8	5/6	6/6	8/2	11/–	13/2	21/–
Sockets, Plain	„	6	6	8	10	1/–	1/4	1/9	2/6
do. Diminished	„	8	10	1/–	1/2	1/6	2/–	2/8	4/–
Backnuts ...	„	4	4	6	7	10	1/–	1/4	2/2

Malleable Fittings

		¼ in.	⅜ in.	½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Elbows, round	each	8½	8½	9½	1/2½	1/8½	2/7½	3/6	5/–
Tees	„	9½	9½	1/–	1/4¾	2/–	2/9½	4/–	5/6
Crosses... ...	„	1/2½	1/2½	1/4¾	2/–	2/9½	3/7½	5/2½	7/2½
Sockets... ...	„	5¾	5¾	7	9½	1/–	1/7½	2/2½	3/1½
Backnuts ...	„	3	3	3½	4½	5¾	7¾	10½	1/5½

Discounts from List prices as follows :—

Galvanised Tube—

	Under 1 ton	Over 1 ton
Light	−39½%	−41 %
Medium	−35½%	−37 %
Heavy	−27½%	−29½%

	W.I. Fittings	Malleable Fittings
Light	−26½%	Malleable List −18½%+40%
Heavy	−22½%	

Black—

Light	−50 %	−51½%
Medium	−46 %	−47½%
Heavy	−38½%	−40 %

Light	−32½%	Malleable List
Heavy	−28½%	−18½%

C.I. Half-Round Gutters

Delivered London per yd. in 6 ft. lengths.

	Gutters	Nozzles	Stop Ends
3 in.	4/0½	3/7	1/–
3½ in.	4/4½	3/11	1/–
4 in.	5/8	4/5	1/7
4½ in.	6/3	4/11	1/10
5 in.	6/11½	5/4	2/2

C.I.O.G. Gutters

Per yd. in 6-ft. lengths :	Gutters	Nozzle	Stop Ends
3 in.	5/2½	4/8	1/3
3½ in.	5/10	4/8	1/7
4 in.	6/5	4/11	1/10
4½ in.	6/11½	5/8	2/2
5 in.	7/7½	6/5	2/6

C.I. Rain-Water Pipes

	Pipe	Bends	Branches
2 in.	8/7½	4/5	6/4
2½ in.	8/7½	4/11	8/6
3 in.	9/8½	6/2	9/2
3½ in.	11/0½	7/3	11/–
4 in.	12/9	8/9	13/1

L.C.C. Coated Soil Pipes

2 in.	9/8½	7/7	9/2
2½ in.	10/4	8/5	11/5
3 in.	11/7	9/2	13/7
3½ in.	12/11½	11/5	15/10
4 in.	14/9	12/9	18/8

Above prices for gutters, rain-water and soil pipes for under 5-cwt. lots. only. Lots over 5 cwt. see List No. 3300, dated February 1, 1955, plus 25% and tonnage allowance. 4-ton lots 5%, 2-ton lots 2½%.

L.C.C. Coated Drain Pipes

		£	s.	d.
4 in. diameter in 9 ft. lengths	per yd. run	1	15	3
6 in. do. do	„	2	11	7
4 in. diameter bends	each	1	3	9
6 in. do.	„	3	3	9
4 in. diameter branches	„	2	2	0
6 in. do.	„	5	1	0

Pitch Fibre Drain Pipes

2 in. diameter in 5 ft., 5 ft. 6 in. or 8 ft. lengths including couplings	per ft. run	1	6½
3 in. do.	„	1	10½
4 in. do.	„	2	6
5 in. do.	„	4	1½
6 in. do.	„	5	0½
4 in. diameter short radius ¼ bends	each	17	9
4 in. do. do. ⅛ bends	„	12	11
2 in. diameter 6 ft. radius bends (5 ft. lengths)	„	16	2
3 in. do. do. do.	„	19	8
4 in. do. do. do.	„	1 7	4
5 in. do. do. do.	„	2 4	0
6 in. do. do. do.	„	2 14	6

Above prices for loads of £60 and over.
Loads £25 to £59 19s. 11d. Plus 10%
Loads under £25 plus 15%

Asbestos Rain-Water Pipes and Fittings

All less 17½% discount.

		2 in.	2½ in.	3 in.	4 in.
Pipes, 6-ft. lengths	per yd.	4/7	4/10½	5/11	7/10
Shoes	each	3/–	3/3	3/10	5/2
Single Branches	„	4/8	5/6	6/7	9/2
Bends, square or obtuse ...	„	3/3	3/7	4/8	6/7
Swan Necks, 4½ in. proj....	„	3/7	4/8	5/2	7/3
do. 6 in do....	„	3/10	5/2	5/10	7/10

Asbestos O.G. Gutters and Fittings

		4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	per yd.	4/4	4/9½	5/9	6/10½
Drop ends	each	3/6	4/–	4/9	5/5
Stop ends	„	1/1	1/2	1/3	1/5
Angles	„	3/7	4/1	5/–	5/10
Nozzles	„	3/6	4/–	4/9	5/–
Union Clips	„	1/9	2/1	2/6	2/11

Asbestos Half-Round Gutters and Fitting

	per	3 in.	4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	yd.	3/0½	3/7½	3/8½	4/4½	6/1
Drop ends	each	2/6	3/–	3/3	3/7	5/2
Stop ends	„	1/–	1/1	1/2	1/3	1/5
Angles	„	2/10	3/3	3/7	3/10	5/2
Nozzles	„	2/6	3/–	3/3	3/7	5/2
Union Clips	„	1/3	1/4	1/5	1/7	2/5

	Per ton basis in London £	s.	d.
Iron—Staffordshire Crown Merchant Quality	52	17	6
Mild Steel Bars	47	8	6
Mild Steel Hoops	49	0	0

	Ex Merchant's Stock per ton Two-ton lots £	s.	d.
Soft Sheets C.R. and C.A.—			
20 gauge	62	7	6
24 gauge	64	17	6
26 gauge	67	17	6
Galvanised Corrugated Sheets, 6-ft. to 9-ft. —			
20 gauge	70	18	0
24 gauge	74	8	0
26 gauge	79	13	0
Galvanised Flat Sheets C.R. and C.A. :			
20 gauge	72	8	0
24 gauge	75	18	0
26 gauge	81	3	0

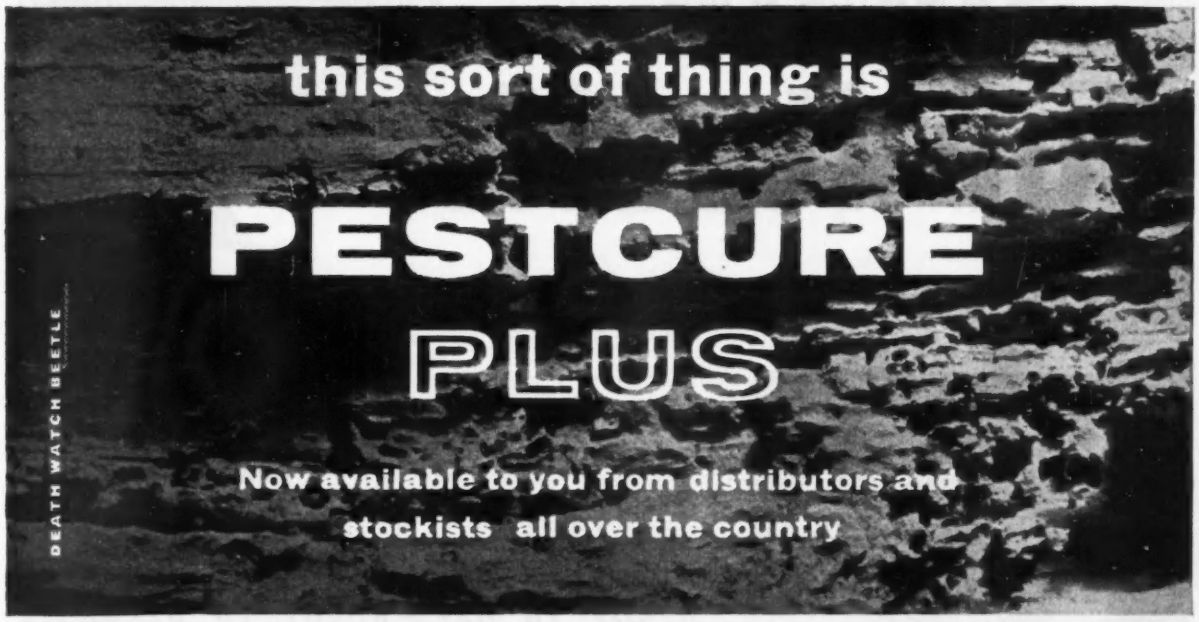
ALUMINIUM AND ALUMINIUM ALLOYS

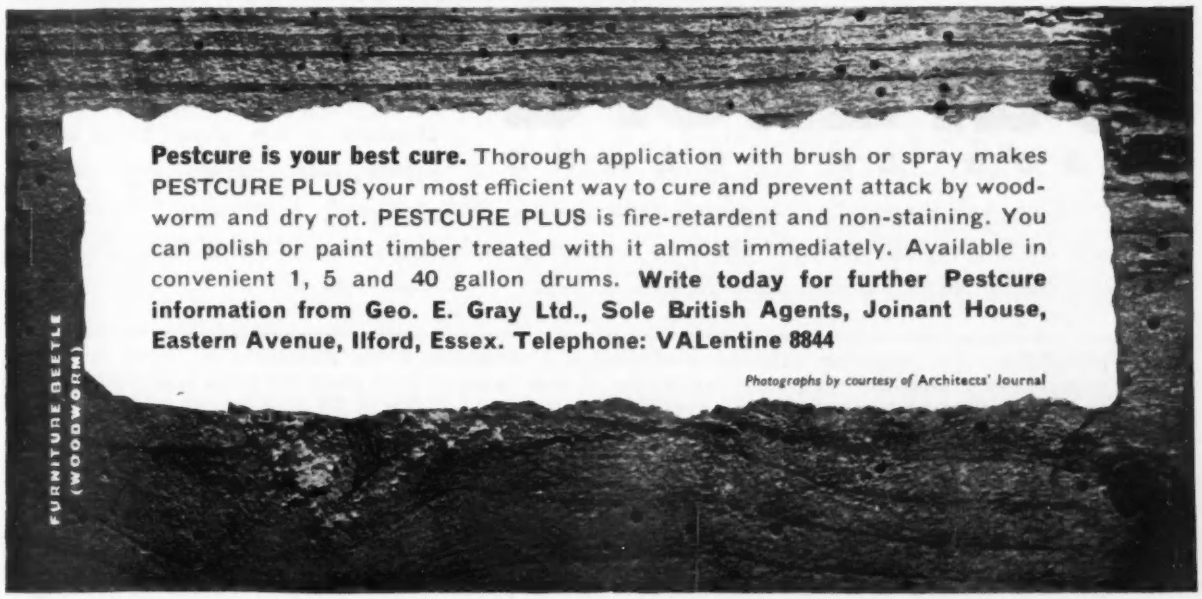
(Base Prices)		£	s.	d.
Sheet BS 1740 S1C 18 SWG (36 in. wide)... ...	per lb.		3	0
Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide)	„		2	11
Coiled strip BS 1470 S1C 18 SWG (24 in. wide)	„		2	11
Coiled strip BS 1470 NS3 Utility 18 SWG (24 in. wide)	„		2	10½
Coiled strip for flashing, high purity, 22 SWG (12 in. wide)	„		3	1½
Corrugated sheet BS 1470 NS3 Circular Profile 8 ft. × 32 in. × 20 SWG	per sheet	1	13	6
Corrugated sheet BS 1470 NS3 Industrial Profile 8 ft. × 31¾ in. × 20 SWG	„	1	19	3
Corrugated sheet BS 1470 NS3 Mansard Profile 8 ft. × 31¾ in. × 20 SWG	„	1	12	7
Extruded section BS 1476 E1C simple moulding	per lb.		2	10
Extruded section BS 1476 E1C 1 in. diam. round	„		2	7½
Extruded section BS 1476 HE10WP simple angle	„		3	1½
Extruded section BS 1476 HE10WP 1 in. diam. round	„		3	0½
Tubing BS 1471 T1C 1½ in. O/D × 20 SWG ...	„		6	6½
Tubing BS 1471 HT19WP 1½ in. O/D × 20 SWG	„		4	0½

PLUMBERS' BRASS WORK, etc.

Delivered in London area.

All per dozen	B.S.S. ½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown bib cocks Crutch head for iron...	87/–	128/–	—	—	—	—
Toilet bib cocks for iron ...	109/–	158/5	—	—	—	--





Pestcure is your best cure. Thorough application with brush or spray makes PESTCURE PLUS your most efficient way to cure and prevent attack by woodworm and dry rot. PESTCURE PLUS is fire-retardent and non-staining. You can polish or paint timber treated with it almost immediately. Available in convenient 1, 5 and 40 gallon drums. **Write today for further Pestcure information from Geo. E. Gray Ltd., Sole British Agents, Joinant House, Eastern Avenue, Ilford, Essex. Telephone: VALentine 8844**

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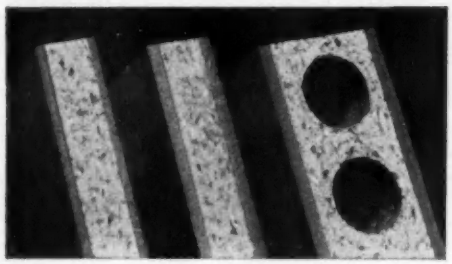
let this board speak for itself..

In three thicknesses 1⅛", ¾" and the popular ⅝"

in 8 ft. x 4 ft. panels



This COMPLETE constructional board is ready for use and immediate decoration. Faced with high density hardboard or hardwood veneers on both sides, it's the answer to so many fabrication problems.

READY TO USE—READY TO DECORATE

Durabord

WOOD CHIPBOARD

Use 'Durabord' and cut building costs—'Durabord' is truly unique—having an EXTRUDED wood chipboard core it provides a tough rigid 'sandwich' of exceptionally stable qualities. Used horizontally or vertically, 'DURABORD' requires little support, thus making it suitable for so many uses including partitioning, kitchen cabinet doors, shelving, window boards, panelling, ceiling trapdoors, etc., etc.

'MELABORD' This admirable Melamine faced board in ⅛" thicknesses is also available in ⅝", ¾" and 1⅝" thicknesses with 'Durabord' Chipboard construction. A wide variety of wood grains and patterns to delight the eye of your prospective customers.

MERCHANTS EVERYWHERE STOCK 'DURABORD' FOR YOUR IMMEDIATE NEEDS

Manufactured by: **F. HILLS & SONS LTD.**, NORTON ROAD, STOCKTON-ON-TEES. Telephone: 67141 Hills

London Office: WINDSOR HOUSE, KINGSWAY, LONDON, W.C.2. Telephone: CHAncery 9251

Telex in operation at both offices

P4602

PLUMBERS' BRASS WORK, etc.—*continued*

All per dozen	½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown stop cocks for iron	66/-	95/9	188/-	363/-	522/6	917/6
do. with two unions for lead	89/-	132/-	234/4	472/-	623/6	1,389/6
Double nut boiler screws ...	18/8	26/5	47/6	48/6	67/-	93/6
Heavy Croydon ball valves...	77/-	193/6	312/5	568/8	734/10	—
Plumbers' union brass lead to iron	19/6	23/6	38/6	52/10	70/6	165/-
	1¼ in.	1½ in.	2 in.	3 in.	3½ in.	4 in.
Caps and Screws	33/-	40/8	59/6	92/5	118/10	155/3
Brass Sleeves	—	31/11	31/11	56/2	74/10	91/5
	1¼ × 6 lb.	1½ × 6 lb.	2 × 7 lb.	3 × 7 lb.		
Lead P. trap with brass cleaning screws	68/6	85/6	137/-	233/9		
Lead S. trap do. do.	82/9	102/9	168/3	302/3		

Solder :			s.	d.
Plumbers' ...	1 cwt. lots	320/-	14 lb. lots per lb.	3 7
Tinmen's	,, ,,	404/-	,, ,, ,,	4 5
Blow pipe ...	,, ,,	407/-	,, ,, ,,	4 6

Copper Tubes and Sheets

Copper tubes BSS 659/1944 on the basic price of 27d. per lb. plus gauge and manufacturing extras as follows. Minimum quantities, 10 cwt.

	Extra d.		d.		d.
½ in. × 19 gauge	15½	Total per lb.	42½	Approx. per ft.	11½
¾ in. × 19 ,,	13¾	,, ,,	40¼	,, ,,	16
1 in. × 18 ,,	12½	,, ,,	39¼	,, ,,	24¼
1¼ in. × 18 ,,	11⅝	,, ,,	38¼	,, ,,	29¼
1½ in. × 18 ,,	11⅝	,, ,,	38¼	,, ,,	35
2 in. × 17 ,,	13¼	,, ,,	40¼	,, ,,	56¼

Small Quantity extras :—

10 cwts. to 5 cwts.	plus ½d. per lb.
5 cwts. to 2 cwts.	,, 1d. ,,
2 cwts. to 1 cwt.	,, 2d. ,,

	£	s.	d.
Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras	264	0	0

Zinc

		£	s.	d.
Sheet Zinc, 10 gauge (25 SWG), 5 cwt. lots upwards	per cwt.	7	15	3
,, ,, 12 gauge (23 SWG), ,, ,, ,,	,,	7	14	9
,, ,, 14 gauge (21 SWG), ,, ,, ,,	,,	7	13	6

Brass Tube

Brass tubes, basic price, plus gauge and manufacturing extras	per lb.	1	10½

LEAD SHEET AND PIPES

Basis selling price to one address in London or Home Counties :

		£	s.	d.
Lead Sheet, English, 3½ lb. substance and upwards	per ton	109	0	0
,, Water Pipe, in coils	,,	111	5	0
Lead Soil Pipe, 10 ft. or over 2 in. to 4 in. in dia.	,,	112	15	0
,, ,, ,, over 4 in. dia.	,,	114	15	0
,, Gas or Untinned Compo pipe	,,	112	15	0

5 cwt. lots and over less 6d. per cwt. off basic prices.
Extras over Basis for quantities under 5 cwt.:

3 cwt. and under 5 cwt.	per cwt.	4	0
1 cwt. do. 3 cwt.	,,	6	0

Smaller quantities than 1 cwt. priced specially.
Supplying sheet lead and lead pipe to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.
Allowance for Old Lead, collected, £63 0s. 0d. per ton weighed at buyer's works.

PLASTER, etc.

		£	s.	d.
Coarse Pink in 1-ton loads and over delivered on site	per ton	8	4	6
do. White do. do. do.	,,	8	14	0
Sirapite Coarse BSS 1191 Class C do.	,,	8	15	9
do. Fine do. do. do.	,,	9	3	3
do. Browning BSS 1191 Class B do.	,,	8	15	9
do. Board Finish do. do.	,,	8	15	9
Blue Lias Lime, in 6-ton loads	,,	6	14	6
Hydrated Lime (Grey), in 6-ton loads	,,	5	10	0
do. (White) do.	,,	6	0	0
Lump Lime (Grey) do.	,,	5	7	0
do. (White) do.	,,	5	14	6
White Keen's or Parian Cement, in 1-ton loads...	,,	11	19	3
Pink Keen's or Parian Cement, in 1-ton loads ...	,,	11	14	0
Granite Chips, in 6-ton loads	,,	2	5	3
Hair	per cwt.	4	17	6
Gypsum Plaster Lath or Base Board, ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	per yd.		2	3½
1,200 yds.	,,		2	2½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,		2	9
1,200 yds.	,,		2	9
Gypsum Plaster Wall Boards, 3 and 4 ft. wide 6 to 12 ft., ⅜ in. thick, 600 yds, and over in one delivery. Delivered site	,,		2	6½
1,200 yds.	,,		2	5½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,		3	0
1,200 yds.	,,		3	0

PAINTS AND DISTEMPER

Delivered London area.		£	s.	d.
Ceiling Distemper	per cwt.	1	7	6
Washable Distemper	,,	5	15	0
Gloss Paint	per gal.	2	16	0
Super Snowcem cement paint (in 1 cwt. drums) ...	per cwt.	4	0	0

Lead Products and Oils

		£.	s.	d.
Ground White Lead, in 1 cwt. kegs	per cwt.	8	7	6
Genuine White Lead Paint, 1-19 gal. lots in 1 gal. tins	per gal.	3	6	6
Genuine Red Lead, Dry, 1 cwt. keg (10 ton lots)	per cwt.	5	12	6
do. do. do. (1 cwt. lots)	,,	6	19	0
Genuine Linseed Oil Putty, 1 cwt. keg	,,	2	13	6
Size XD quality 28 lb.	per tin		9	0
Raw Linseed Oil (5 gal.) drums extra	per gal.		19	2
Boiled Linseed Oil (5 gal.) do.	,,	1	0	0

Sundries

Turpentine substitute (5 gal.) drums extra... ...	,,	5	4½
do. do. (40 gal.) do.	,,	4	8¾
Solignum, Brown (5 gal. cans) Exterior	,,	8	8
Creosote (40 gal. barrels)	,,	2	3
Paste Powder (1 lb. packets)	per lb.	2	4
White Lining Paper	per piece	1	2

VARNISHES, etc.

Delivered London area.		£	s.	d.
Oak Varnish, Outside or Inside	per gal.	2	0	0
Oal Pale Copal do. do.	,,	2	0	0
Hard Drying Oak for Inside	,,	2	5	0
Crystal Paper Varnish do.	,,	2	8	0
Eggshell Flat Varnish do.	,,	2	2	0
Finest Carriage Varnish	,,	2	7	0
Front Door Varnish	,,	2	4	0
Japan Gold Size	,,	1	12	0
Black Japan	,,	1	16	0
Brunswick Black	,,	1	12	0
Berlin Black	,,	1	10	0
Terebene	,,	1	12	0
Knotting (1 gal. bottles free)	,,	1	15	0
French and Brush Polish (do.)	,,	1	15	0

GLASS

Delivered London area.		s.	d.
18 oz. Sheet Glass Ordinary Glazing Quality— Cut Sizes	per ft. sup.		9½
24 oz. do. do. do. do.	,,		11½
26 oz. do. do. do. do.	,,	1	2¼
32 oz. do. do. do. do.	,,	1	6½
¼ in. Rolled Plate	,,	1	2½
3/16 in. Rolled and Rough Cast	,,	1	5
¼ in. do. do.	,,	1	5¾
⅛ in. Figured Rolled and Cathedral, Standard patterns—			
White Group 1	,,	1	2½
do. Group 2	,,	1	8½
do. Standard Tints	,,	2	1½
do. Special Tints	,,	7	3
⅛ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating Group 3	,,	1	7½
¼ in. Wired Cast	,,	1	9½
¼ in. Georgian Wired Cast	,,	1	9½
Hollow Glass Blocks—			
P.B.2 Cross reeded 5¾ × 5¾ × 3⅞ in.	each	3	6
P.B.3 Broad reeded 7¾ × 7¾ × 3⅞ in.	,,	5	4
P.B.32 Cross reeded 7¾ × 7¾ × 3⅞ in.	,,	5	4
P.B.4 Prismatic 7¾ × 7¾ × 3⅞ in.	,,	6	0
P.B.5 Flemish 7¾ × 7¾ × 3⅞ in.	,,	5	4
P.B.6 Boomerang 7¾ × 7¾ × 3⅞ in.	,,	6	0
Half Size Blocks—			
P.B.32 Cross reeded 7¾ × 3¾ × 3⅞ in.	,,	4	6
Radiused Corner Blocks to match up with—			
P.B.2 Cross reeded	,,	7	6
P.B.3 Broad reeded	,,	9	0
P.B.32 Cross reeded	,,	9	0
P.B.2, P.B.3, P.B.32 are also supplied in Light Diffusing Blocks at same price.			
¼ in. Polished Plate Glass, G.G. quality—			
In plates not exceeding 2 ft. sup.	per ft. sup.	4	7
,, ,, ,, 5 ft. sup.	,,	5	7
,, ,, ,, 45 ft. sup.	,,	6	9
,, ,, ,, 100 ft. sup.	,,	7	4
¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality—Not exceeding 135 ft. sup. or 240 in. one way or 130 in. both ways ...	,,	10	9
Not exceeding 180 ft. sup. or do.	,,	14	3

Plates exceeding 180 ft. sup. prices on application.
Substances other than ¼ in. Polished Plate at Special Prices.

Quantity Tariff—Sheet and Sundry Glass.
The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

Description of Glass	Minimum quantity	per ft. sup. s.	d.
18 oz. sheet O.Q.	3,000		6¾
24 oz. ,, ,, ...	2,000		8¾
26 oz. ,, ,, ...	2,000		11
32 oz. ,, ,, ...	2,000	1	2½
¼ in. Rolled Plate	1,000		10¾
⅛ in. Figured Rolled and Cathedral Standard Patterns, White Group 1	1,000		10¾
do. Group 2	1,000	1	2
⅛ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte Group 3	1,000	1	2
3/16 in. Rolled Plate or Rough Cast	2,000	1	1
¼ in. do. do.	2,000	1	1¾
¼ in. Wired Cast, Hexagonal	2,000	1	4½
¼ in. Georgian Wired Cast	2,000	1	4½

THE BUILDER RATES OF WAGES

AS FROM OCTOBER 3rd., 1960. (Every endeavour is made to ensure accuracy but we cannot be responsible for errors)

1. Craftsmen and Labourers.

Region	Craftsmen	Labourers
	s. d.	s. d.
England & Wales (Grade A) ...	4 11½	4 4
London	5 1	4 5½
Liverpool and District ...	5 1	4 5½
Scotland... ...	4 11½	4 4
North'n. Ireland	4 11½	4 4

2. Apprentices.

Age	Per cent. of Craft Rate	London and Liverpool Dist.	England, Wales and Scotland
		s. d.	s. d.
15	25	1 3½	1 3
16	33½	1 8½	1 8
17	50	2 6½	2 5¾
18	62½	3 2½	3 1½
19	75	3 9¾	3 8¾
20	87½	4 5½	4 4½

3. Young Male Labourers.

Age	Per cent. of Craft Rate	London and Liverpool Dist.	England, Wales and Scotland
		s. d.	s. d.
15	33½	1 6	1 5½
16	45	2 0½	1 11½
17	66¾	2 11¾	2 10¾
18	100	4 5½	4 4

NORTHERN IRELAND is not included in the rates shown in Tables 2 and 3. Rates fluctuate so much from district to district that reference should be made to local offices.
WATCHMEN.—The rates per shift for watchmen engaged on building sites is 27s. 3d. in London and Liverpool District, and 26s. in the provinces.
FEMALE OPERATIVES.—In all districts throughout the country the rate of wages for women engaged in craft processes is 4s. 1d. per hour. Women engaged on work other than craft processes, 3s. 9d. per hour.

New Companies

THE FOLLOWING NEW COMPANIES, registered in England, have been announced by Jordan and Sons, Ltd., company registration agents.

CITY ROAD BUILDERS LTD.—Regd. Aug. 4, 1960. 9 Bannercross-rd., Sheffield, 11. Secy.: Eileen F. Finnegan. Nom. cap.: £100.

GOODRIDGE LTD.—Regd. Aug. 4, 1960. 26 Melbourne-st., Plymouth. Secy.: Thos. A. Herbert. Nom. cap.: £100.

BOOTH TRINIDAD LTD.—Regd. Aug. 5, 1960. 34 St. James-st., SW1. Secy.: J. N. Hay. To carry on in the UK and the West Indies the bus. of bldrs. and contractors and engrs., etc. Nom. cap.: £100.

HANDFORTH BUILDING CO. LTD.—Regd. Aug. 5, 1960. 20 Booth-st., Manchester 2. Secy.: R. C. Sadler. Nom. cap.: £10,000.

WARWICK BISHOP & CO. LTD.—Regd. Aug. 5, 1960. Posbrook Cottage, Posbrook-la., Titchfield, Hants. Secy.: W. Bishop. Bldrs., etc. Nom. cap.: £2,500.

CLAPTON BUILDING SUPPLIES LTD.—Regd. Aug. 5, 1960. Clapton, Ston Easton, Som. Nom. cap.: £5,000. Dir.: Kenneth S. Biggs, Woodside, High Littleton, nr. Bristol.

CITY PAINTS LTD.—Regd. Aug. 8, 1960. 26 Thorold-st., Boston, Lincs. Secy.: Thos. A. Herbert. Bldrs. and decorators, etc. Nom. cap.: £100.

ASHTON & MCCAUL LTD.—Regd. Aug. 8, 1960. 33 Gas-st., Leigh, Lancs. Bldrs. and contractors, etc. Nom. cap.: £5,000. Dir.: Eric Ashton, 208 Hope Carr-rd., Leigh, Lancs.

HENRY J. ROGERS AND PARTNERS LTD.—Regd. Aug. 8, 1960. Green End, Comberton, Cambs. Secy.: V. Maslin. Bldrs. and contractors, etc. Nom. cap.: £4,000.

HILSDON AND WILLIAMS (OXFORD) LTD.—Regd. Aug. 8, 1960. 19 Crescent-rd., Oxford. Bldrs., etc. Nom. cap.: £2,000.

STEPHEN HANDYSIDES & SON LTD.—Regd. Aug. 8, 1960. Bldr. Nom. cap.: £2,000. Dir.: Stephen Handysides, 18 Ridgeway, Fenton, Newcastle-on-Tyne 4.

DAVIES BROS. (HARROW).—Regd. Aug. 9, 1960. 15 Whitefriars-dr., Harrow Weald, Mddx. Secy.: Shirley Hart. Bldrs., etc. Nom. cap.: £100.

ABCON BUILDING CO. LTD.—Regd. Aug. 10, 1960. 6 Hobart-pl., SW1. Secy.: Henry G. Gilbert. Nom. cap.: £100.

The following companies have been registered with details similar to Abcon Building Co. Ltd.: HALGAVOR BUILDING CO. LTD., CANYKE BUILDING CO. LTD., LANINVAL BUILDING CO. LTD., RIVIERA BUILDING CO. LTD., WHITESTONE BUILDING CO. LTD.

D. AND B. GOODCHILD LTD.—Regd. Aug. 10, 1960. 6 Whitethorn-dr., Brighton. Secy.: Betty Goodchild. Bldrs., etc. Nom. cap.: £1,000.

GMSW BUILDING & INVESTMENTS CO. LTD.—Regd. Aug. 10, 1960. 18 Charing Cross-rd., WC2. Nom. cap.: £3,000. Dir.: Maurice Sherman, 18 Charing Cross-rd., WC2.

J. KELLY & SON (CONTRACTORS) LTD.—Regd. Aug. 10, 1960. 55 Belsize-la., NW3. Secy.: Annie J. Kelly. Bldrs., etc. Nom. cap.: £500.

CHARLES A. PHIPPS & CO. LTD.—Regd. Aug. 10, 1960. Bldrs., etc. Nom. cap.: £5,000. Dir.: Charles A. Phipps, 149 Percy-ave., Kingsgate, Broadstairs, Kent.

JOSEPH WHARTON (BUILDERS) LTD.—Regd. Aug. 10, 1960. 5 Berkeley-st., Scunthorpe. Secy.: D. Wharton. Nom. cap.: £3,000.

THURSTON BUILDING CO. LTD.—Regd. Aug. 10, 1960. 18 Hatter-st., Bury St. Edmunds. Secy.: Geo. Shave. Nom. cap.: £2,500.

WILLIAM ENGLAND & SONS LTD.—Regd. Aug. 10, 1960. Drydock, Dearney, Littleborough, Lancs. Secy.: W. England. Joiners and bldrs. Nom. cap.: £5,000.

C. & T. ATKINSON (BUILDERS) LTD.—Regd. Aug. 11, 1960. 4 Clog Bridge, Silsden, Yorks. Secy.: Clifford Atkinson. Nom. cap.: £4,000.

UNDEB BUILDERS LTD.—Regd. Aug. 11, 1960. 19 Victoria-sq., Aberdare, Glam. Nom. cap.: £100. Dir.: Trefor R. Morgan, Rhydlafar, Glanolyd, Ystradgynlais.

S. COLLINS AND SONS (BUILDERS) LTD.—Regd. Aug. 11, 1960. Bldrs. and contractors. Nom. cap.: £5,000. Dir.: Samuel Collins, 43 Jews-la., Upper Gornal, Staffs.

SUPA SAVE LTD.—Regd. Aug. 11, 1960. 28 King-st., Cheapside, EC2. Bldrs., contractors, etc. Nom. cap.: £100. Dir.: Murray D. Maitland, The Lawn, Rochford, Essex.

T. & N. SPARLING LTD.—Regd. Aug. 11, 1960. Bridges Wood, Burstow, nr. Horley, Surrey. Bldrs., etc. Nom. cap.: £100. Dir.: Theodore A. G. Sparling, Bridges Wood, Burstow, nr. Horley, Surrey.

B. SIMPSON (BUILDERS) LTD.—Regd. Aug. 12, 1960. The Bungalow, Bulls Hill, Coughton, Ross-on-Wye, Herefordshire. Secy.: Jacqueline F. Simpson. Nom. cap.: £1,000.

BOZ BUILDING CO. LTD.—Regd. Aug. 11, 1960. 6 Hobart-pl., SW1. Secy.: H. G. Gilbert. Nom. cap.: £100.

CALLYWITH BUILDING CO. LTD.—Other details similar to Boz Building Co. Ltd. (qv).

GENERAL BUILDING SUPPLIES (ORPINGTON) LTD.—Regd. Aug. 11, 1960. 233 High-st., Orpington, Kent. Secy.: Magdalen Plummer. Nom. cap.: £100.

J. H. SHORNEY LTD.—Regd. Aug. 11, 1960. Greenaleigh, Hillfarrance, nr. Taunton. Genl. bldrs. and contractors. Nom. cap.: £5,000. Permt. dir.: Alex. D. Gourlay, 3 Parkfield-dr., Taunton.

MORETON & SONS LTD. Regd. Aug. 11, 1960. 3 St. Swithun-st., Winchester, Hants. Secy.: P. C. Moreton. Bldrs. and decorators. Nom. cap.: £20,000.

L. G. DAVIS LTD.—Regd. Aug. 12, 1960. 254a High-st., Waltham Cross. Secy.: Dorothy M. Davis. Bldrs., contractors, etc. Nom. cap.: £1,000.

L. EDWARDS & SONS (SUCCESSORS) LTD.—Regd. Aug. 12, 1960. 9 Cavendish-sq., W1. Bldg. contractors. Nom. cap.: £100. Sub.: Wm. V. Memery, 36 Abbotts-dr., North Wembley.

PETER PROCTOR (BUILDERS) LTD.—Regd. Aug. 12, 1960. 94 Vale-rd., Sheffield 3. Secy.: Mrs. M. Moore. Nom. cap.: £500.

D. E. CLEGG LTD.—Regd. Aug. 12, 1960. 2 Gladstone-st., Ilkeston, Derbys. Bldg. contractors. Secy.: Winifred Clegg. Nom. cap.: £5,000.

LELA BUILDERS LTD.—Regd. Aug. 12, 1960. 5 Westhead-chmbrs., George-st., Staines, Mddx. Secy.: H. Donaldson. Nom. cap.: £1,000.

J. W. CLEMENTS LTD.—Regd. Aug. 15, 1960. 'Maidsetone,' Bourne Hill, Wherstead, nr. Ipswich. Secy.: J. R. Mackneos. Bldrs. and contractors, etc. Nom. cap.: £500.

L. & J. FORD (BUILDERS) LTD.—Regd. Aug. 15, 1960. 30 Park-la., Waltham Cross, Herts. Secy.: Elsie M. Ford. Nom. cap.: £1,000.

R. D. JOHNSON & CO. (PORTABLE BUILDINGS) LTD.—Regd. Aug. 15, 1960. 'Florita,' Abergele-rd., Rhuddlan, Flints. To take over the bus, carried on by Roy D. and Marguerite M. Johnson at Rhuddlan, Flints., as 'R. D. Johnson & Company,' etc. Nom. cap.: £4,000. Dir.: Roy D. Johnson, 'Florita,' Abergele-rd., Rhuddlan.

R. H. STEPHENSON & CO. (BUILDERS) LTD.—Regd. Aug. 15, 1960. 47 Queen-st., Exeter. Secy.: Kathleen A. Weaver. Nom. cap.: £1,000.

RUSH & TOMPKINS DEVELOPMENTS LTD.—Regd. Aug. 15, 1960. 26 Victoria-st., SW1. Secy.: N. J. Rush. Land developers, etc. Nom. cap.: £10,000.

T. E. WRIGAT & SON (CONTRACTORS) LTD.—Regd. Aug. 15, 1960. 71 Saltergate, Chesterfield. Secy.: A. E. Mitchell. Bldrs., bldg. contractors, etc. Nom. cap.: £1,000.

T. R. ELLIS & CO. LTD.—Regd. Aug. 15, 1960. 3 Orchard-st., Nuneaton, Warwicks. Secy.: Jean W. Bartlem. Bldrs. and contrs.. Nom. cap.: £3,000.

E. & M. WILLIAMS LTD.—Regd. Aug. 16, 1960. 136 Ramillies-rd., Sidcup, Kent. Secy.: Margaret Williams. Bldrs., etc. Nom. cap.: £1,000.

HERSTAM BUILDERS LTD.—Regd. Aug. 16, 1960. 138/9 Bush-hse., Aldwych, WC2. Secy.: Shirley Hart. Nom. cap.: £100.

LACOSAL PROPERTIES LTD.—Details similar to Herstam Builders Ltd.

RINGINE PROPERTY DEVELOPMENTS LTD.—Details similar to Herstam Builders, Ltd.

JACK HOLDSWORTH & CO. LTD.—Regd. Aug. 16, 1960. 16 Seatonville-rd., Whitley Bay, Northumberland. Secy.: W. Ross. Bldrs., etc. Nom. cap.: £500.

J. HEWISON LTD.—Regd. Aug. 16, 1960. Public wrks. contractors, etc. Nom. cap.: £100. Sub.: J. Hewison, 14 Clavering-rd., Winlaton, Co. Durham.

deliveries

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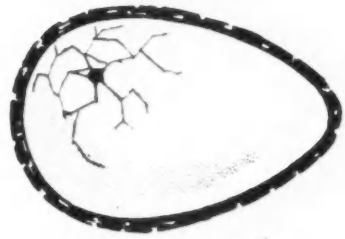
right



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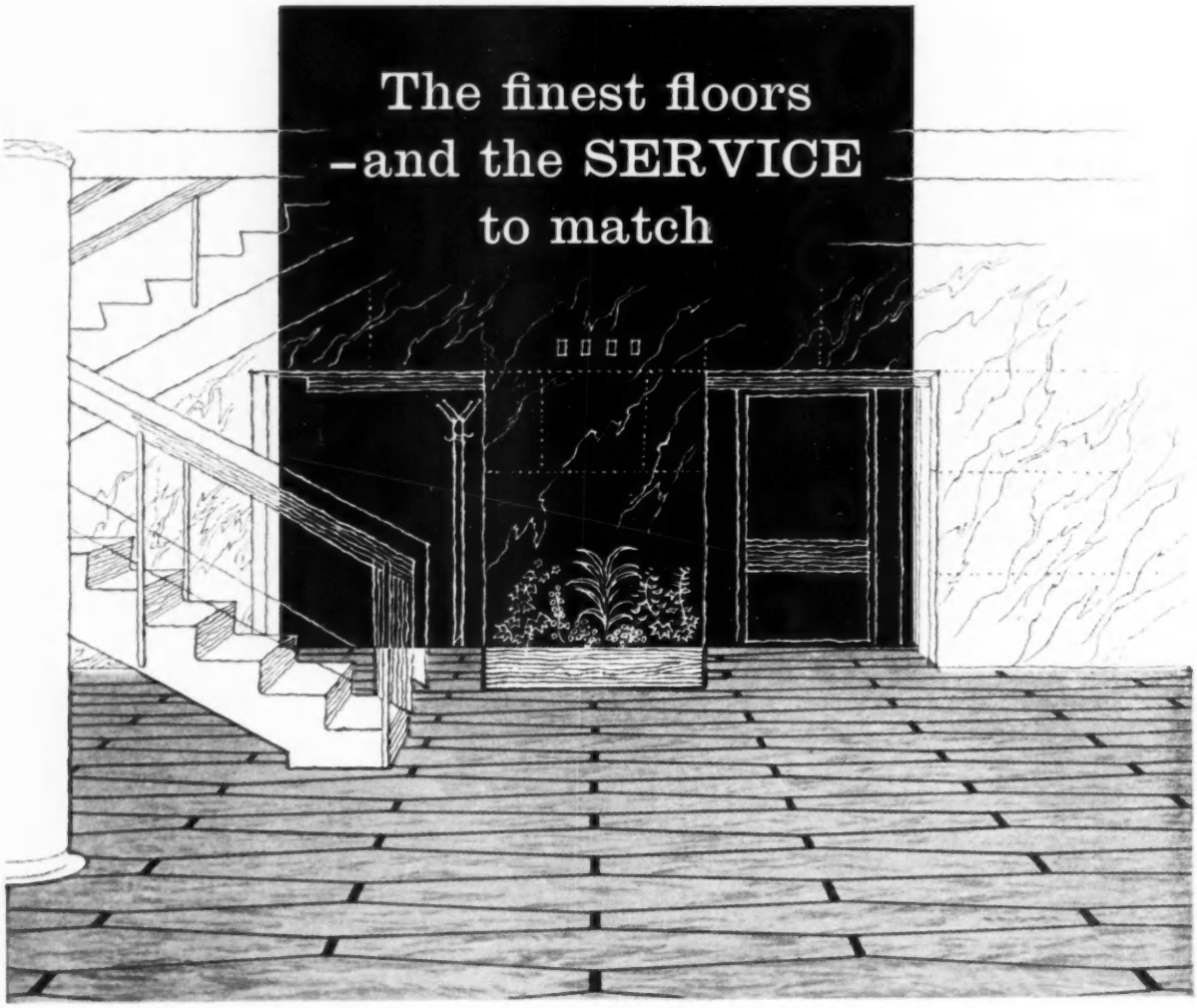
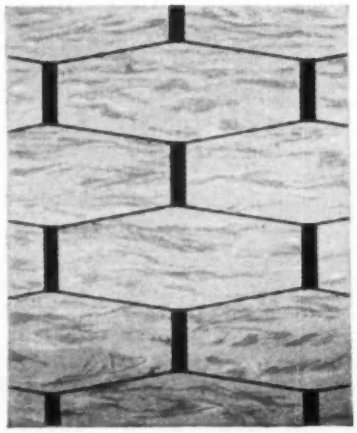
Therefore, when it's a question of cement, give your orders to Tunnel, makers of Britain's finest cement for every purpose — ordinary Portland Cement, White & Coloured Cements, Masonry Cement and Sulphate Resisting Cement. You can rely on the Tunnel Delivery Fleet to carry out your instructions to the letter and the minute.

THE TUNNEL PORTLAND CEMENT COMPANY LIMITED · 105 PICCADILLY, LONDON W.1. GROSVENOR 4100

CYS-34

The finest floors –and the SERVICE to match





Rubber Flooring installed in the entrance hall of St. James's House, London, S.W.1

Semtex, manufacturers of a wide range of flooring materials, including Semastic Decorative Tiles, Semflex Tiles, Vinylex Tiles, Dunlop Rubber Flooring and Vertilex Decorative Wall Tiles, will employ their vast resources in taking welcome responsibility for your entire flooring operation. Twenty contracting branches throughout the country will advise readily on all flooring and pre-treatment problems and offer a highly-skilled laying service, providing, in addition, comprehensive facilities for design.

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TECHNICAL REVIEW

This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 162 of this issue. The form can be used for more than one inquiry.

1. Concrete

The 'Gyramixer' concrete mixer will discharge a one cubic yard batch in 15 to 20 seconds

A new stationary horizontal pan type CONCRETE MIXER has been developed for high-speed mixing of concrete to any specification, ranging from pavement quality to harsh lean mixes. It has an unmixed batch capacity of 42 cu. ft. and a 28 cu. ft. mixed batch capacity. A feature claimed for this machine is the high efficiency in mixing, each batch being thoroughly blended in 20 to 30 seconds, whilst an output of up to 60 cu. yd. per hour can be obtained.

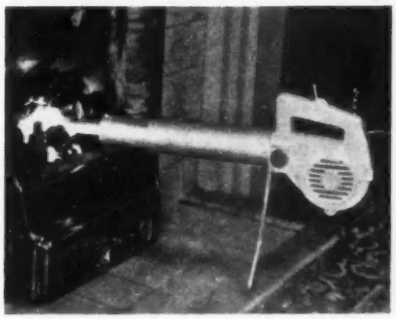
The unit, in which the pan forms part of the main frame structure, is robustly constructed and extensive use has been made of special wear-resisting steels. The stationary pan principle of design minimises the number of moving parts and reduces maintenance to a minimum.

Blaw Knox, Ltd.,
94 Brompton-st., London, SW3.

2. Heating

An ELECTRIC FIRELIGHTER has recently been shown which will ignite a fire by directing hot air, at a temperature of 800°C, into the fuel in a grate. The basis of this new firelighter is the intertwining of an electric element through an extra tough ceramic former. This is mounted in a tube and a jet of air is blown over it from an impeller—not dissimilar to that used in an ordinary domestic hair dryer. The air then quickly reaches a temperature well above the ignition point of smokeless fuels.

Once the fire is under way, and this may take from 1½-4 minutes using good quality coal in an open fire to 12-15 minutes using coke nuts, a cold air blast can be obtained by the turn of a key which will serve both to fan the fire and cool down the outer casing. The fire-



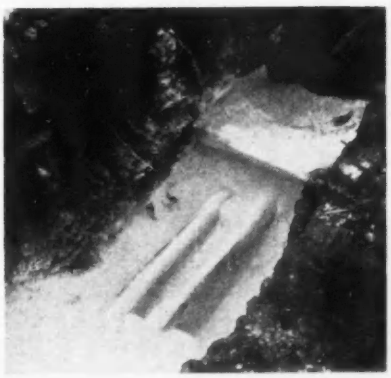
lighter is fitted with an adjustable stand so that it may be used with any type of grate or boiler.

The General Electric Co., Ltd.,
Magnet House, Kingsway, WC2.

3. Pipelines

A fine MINERAL POWDER, prepared by a patented process, is now being marketed for use in underground pipe installations. 'Protexulate' is delivered in bags and poured direct into the trench, covering the pipeline to a depth based on the dimensions of the pipes. The empty multi-ply paper bags are then placed over the powder and the trench filled in with earth. As the material is permanently waterproof, infiltration of moisture, even when the ground is saturated with water, is said not to occur. Thus the pipes are protected from corrosion and no curing process or protective coating on them is needed. Neither is any concrete ducting and separate lagging required. The powder also provides a high degree of thermal insulation for the pipes.

Croxton & Garry Ltd.,
16-18 High-st., Kingston-on-Thames, Surrey.



'Protexulate' is poured direct into the trench

4. Refuse

What is known as a PENDULUM COMPRESSOR is now being employed to enable greater loads of refuse to be collected. It is used in conjunction with a pendulum body, which can be fitted to the majority of chassis manufactured today, into which refuse is admitted through spring loaded doors. A barrier, hinged along its upper edge, will, in its normal position, completely enclose the rear of the vehicle. When the body of the vehicle has been partially loaded, the compressor is operated. Movement of a control level causes an hydraulic ram, situated in the chassis, to contract, drawing the lower edge of the barrier towards the front of the pendulum body. This compresses the rubbish into the forward end and so increases the loading capacity.

The body can be elevated through 50° for tipping, whilst a simple link mechanism is used to lift the barrier clear of the discharge.

John Gibson & Son, Ltd.,
Jameson Place, Leith Walk, Edinburgh 6.

5. Transport Vehicles

An 8-ton FORWARD CONTROL TRUCK, now being exhibited at the Commercial Motor Show, is powered by a new 354 cu. in. direct injection diesel engine. This drives through an hydraulically actuated 13 in. diameter clutch and five-speed gearbox and has a gross output of 112 b.h.p.

The truck is strongly constructed and, like other models in this range, the all-steel cab is carried on a four-point rubber mounted sub-frame of box section. Important safety features are the panoramic visibility for the driver through a one-piece wrap-around windscreen and large curved rear quarter lights. The platform body is constructed of aluminium extrusions.

Dodge Brothers (Britain) Ltd.,
Kew, Richmond, Surrey.

Technical Publications

A four-page leaflet has just been published by THE KEY ENGINEERING CO. LTD., of Larkfield, near Maidstone, Kent, dealing with the pitch fibre drain pipe. It is the first in a series of new and revised literature to be issued by the company. The leaflet briefly describes the manufacture of the pipe, how low cost drainage can be achieved, and the three main uses of Key pipe—as underground soil and surface water drains; stack drainage; and road drainage (with perforated pipe).

Two useful pamphlets have come from SOIL MECHANICS LTD., of 65 Old Church-street, London, SW3, one on corrosion surveys, the other on trial pits for investigating ground conditions. The work depicted in the second booklet took place at the proposed nuclear power station at Sizewell in Suffolk, where a deep, close-timbered trial pit was put down. Here, the bearing capacity of the soil in depth had to be calculated with the greatest possible accuracy and there is an interesting description of the loading tests applied.

News in Brief

The Manchester Building Centre

THE FIRST formal function to be held by the Manchester Building Centre since it opened without ceremony on July 8, is to be held on October 27. The director, Mr. John P. Griffiths, DipArch, ARIBA, announces that Sir Basil Spence, OBE, RA, PPRIBA, will make an official visit as president of the Building Centre, London. Sir William Holford, president RIBA, Mr. J. D. Trustram Eve, president RICS, national chairmen and presidents of societies and institutions in the building industry, and the Lord Mayor of Manchester, will also be present.

The Late Mr. H. J. J. Morgan

THE DEATH OCCURRED on September 28 of Mr. Harold J. J. Morgan, a director of Constable Hart & Co. Ltd. and managing director of Matt-Surface Roads Ltd.

Building Surveyors' Institute

THE ANNUAL general meeting of the Building Surveyors' Institute was held at the Hotel Rubens, Buckingham Palace-road, SW1, on October 1. Mr. Stanley C. Greatrix was installed as National President of the Institute.

Crawley New Town Appointments

MR. HENRY BROOKE, Minister of Housing and Local Government, has appointed Major B. H. Jones, Councillor Robert May, and Mr. James Macnabb members of Crawley New Town Development Corporation.

Hospital Building in N. Ireland

A FULL LIST of new projects proposed by the Northern Ireland Hospitals Authority is given in its twelfth annual report now published. During 1959, states the report, some £2,322,650 was spent on building work and the purchase of property and plant. The report may be obtained, price 3s. 6d., from the Authority, at 27 Adelaide-street, Belfast, 2.

Technical Teachers' Staff College

SIR DAVID ECCLES, the Minister of Education, announced on September 28 the names of the first governors of the proposed staff college for technical teachers. Sir Alexander Fleck, KBE, FRS, will be the chairman of the governing body which includes representatives from both sides of industry, local education authorities, teachers and universities. The Secretary of State for Scotland has appointed one nominee and two other members also come from Scotland. There are seventeen members under the chairman.

Consultant for Oxford's Supergrid Line

OXFORD AND DISTRICT Joint Advisory Planning Committee decided on September 21 to retain a consultant to advise it on the proposal by the Central Electricity Generating Board to carry a new supergrid line across the area. The consultant will be asked to advise on all aspects of the problem, including whether the line is needed at all.

Fire Stations Criticised

MANY of our fire stations are a disgrace, said the Chief Fire Officer of Wiltshire, Mr. J. A. Broadbent, on September 28 in his residential address at the opening of the Chief Fire Officers' Association conference at Bournemouth. The stations were bad for public relations, unfair to officers and men, a deterrent to recruiting, and a drag on operational and administrative efficiency, he said, adding that the lack of progress with fire service building and brought disappointment and frustration to fire authorities, and desperation to chief fire officers trying to cope with the problem on an annual budget basis. 'We must have support in our building problems if we are to maintain a reasonable standard of efficiency.'

Shortage of Bricks at Scunthorpe

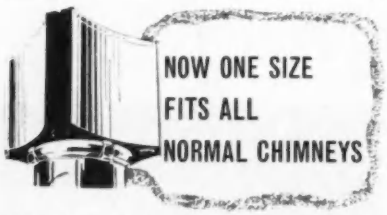
A SERIOUS SHORTAGE of bricks was given by Scunthorpe's Housing Committee on September 26 as the reason for the backlog of work in the current year's programme of 100 houses. The possibility of applying to the Minister of Housing and Local Government for increased allocation was discussed.

New Motor Factory at Liverpool

MESSRS. POSFORD, PAVRY AND PARTNERS, of Westminster, have been appointed consulting engineers by the Ford Motor Company Ltd. for their new factory at Halewood, near Liverpool. The cost of civil engineering works, structural steel and other sub-contractors' works will amount to £15m. The main contractors, Messrs. G. Percy Trentham Ltd., are already engaged on site levelling and foundation work.

Direct Labour Experiment

CHERTSEY (SURREY) URBAN COUNCIL have been given approval by the Ministry of Housing and Local Government to build six houses at Broomfield-road, New Haw, and four houses and four garages in Fordwater-road, Chertsey, by direct labour, in accordance with an estimate of £13,417 (Broomfield-road) and £7,953 (Fordwater-road). The Minister emphasised that the proposal was agreed as an experiment, and it was suggested that careful cost and time records might prove useful to the Council for other future work.



...from 6" to 10" internal diameter, square, round or rectangular. (Sizes below 6" and from 10" to 12" fitted with a fixing sleeve.) Security straps bind the Cowl safely against gales.

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Landscape Architect's Consultancy

MR. RICHARD SUDELL, a London landscape architect, has been appointed by Southampton Borough Council as consultant for the development of their detached playing field at Redbridge. The project forms part of the Education Committee's minor capital works programme for 1960-61 and it is regarded as urgent that planning should begin at once so that site operations may commence in March.

Apprentice Training School

A NEW apprentice training school—the first of its kind in the area—was opened on September 8, at the Stanningley (near Leeds) Works of George Cohen Sons and Company Ltd. The new school will increase the works' capacity for apprentice training from 25 to 50 apprentices at any one time.

School Building in Yorkshire

THE WEST RIDING of Yorkshire Education Committee has received approval from the Ministry of Education for a building programme for 1962-63 costing £2½m. It provides for 15 new schools and extensions to four others. Provisional approval has also been received for projects costing £1,700,000 for 1963-64, and it is expected that work costing a further £900,000 will be added to this.

Technical Films

THE PRODUCTION of films and architectural still photography for the building and civil engineering industries is one of the aims of Dormar Productions Ltd., a recently established company. Its object is to improve the standards of photography and it is, states Mr. John Dorward, the general manager, the first company of its kind in this country to specialise in one branch of industry. Its service will enable large, medium-sized and small building firms to keep abreast with other industries at an economical cost.

Woodworm and Dry Rot

THE SUCCESS of lectures on wood-boring insects and wood-rotting fungi, given last winter under the auspices of the Woodworm and Dry Rot Centre, has prompted another series to cover the principal towns in the United Kingdom. The new series, which will be illustrated and designed to help in the detection of insect and fungal attack, will begin this month and continue to the end of March, 1961. Further details may be obtained from the organisers, at 16 Dover-street, London, W1.

YOU CALL THE TUNE—HE PLAYS IT When it comes to cast iron pipes, he knows the score. He's our Mr. Powell, but he might well be one of our other eight area pipesmen. Each is a personal pipeline to the Allied Service, ready to look after your interests at all times. You can contact him for prompt delivery of rainwater, soil and drain goods. You can send him your drawings for information as to the pipes etc. you should order and where supplies may be found. He will perform any variations on the theme of rainwater and soil drain goods you like to compose. No applause for Mr. Powell, please. He is just doing his usual job — at his usual concert pitch. For area 1, Phone Stockton 65291. For area 9, Phone Falkirk 2441. For all other areas Phone Wellington (Salop) 510.

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GOODLASS WALL & CO. LIMITED, CORN EXCHANGE, LIVERPOOL 2 (or) 179/185 GT. PORTLAND STREET, LONDON W.1.

Storage of Petroleum

SOME INTERESTING and little-known points about the statutory regulations for the storage of petroleum spirit are contained in the Fire Protection Association booklet, 'The Storage of Petroleum Spirit and Petroleum Mixture.' The newly published revised edition covers all aspects of the best practice in storage and lists the legal requirements and recommendations applicable to stores of various capacities, including petrol stations and major installations. Copies, price 2s., may be obtained from the FPA, at 31-45 Gresham-street, London, EC2.

Personal Column

After many years as the technical representative of Messrs. P. C. Henderson Ltd., sliding door gear manufacturers, MR. ALFRED P. VEALE, BSC, has just retired. MR. GEOFFREY JONES, son of MR. GLYN JONES, joint managing director of P. C. Henderson Ltd., succeeds Mr. Veale. He will reside at Stanley-park, Selsey, Stroud. (Tel.: Stroud 1849).

British Insulated Callender's Cables Ltd. announce the following appointments, effective from September 19, 1960:

MR. H. F. AKEHURST, previously director (overseas operations), MR. R. M. FAIRFIELD, previously director (home operations), and MR. W. C. HANDLEY, previously director (home group co-ordination), to be assistant managing directors of the Company. They will be responsible to SIR WILLIAM MCFADZEAN, the managing director, for the day-to-day operation and administration of the Company in their respective spheres. MR. E. BOWYER and MR. C. H. BROUGHTON PIPKIN are to be executive directors of the Company. LT. GEN. SIR RONALD M. SCOBIE, who has been a director of the Company since September, 1947, has resigned from the Board.

E. Boydell & Co. Ltd., Old Trafford, Manchester, announce the appointment of MR. C. F. HEWLETT as sales representative for the East Anglia area. The appointment was effective from September 12.

MR. LESLIE PARKER, managing director of Anderston Clyde Engineers Ltd., has embarked on a seven-weeks American business tour.

MR. G. F. D. SPONG, overseas technical representative of Expandite Ltd., Chase-road, London, NW10, left London on October 4 for a tour of all Middle East countries. He will be visiting the company's associates and distributors and will also be studying the application of certain specialised materials under tropical conditions.

SIR DONALD PERROTT has been appointed chairman of J. A. Stirling Ltd., civil engineers and contractors, of Welwyn Garden City.

MR. I. K. ROBSON will be handling all technical and sales enquiries for Key pitch fibre conduit and underfloor duct manufactured by The Key Engineering Co. Ltd. at 2 Caxton-street, Westminster, SW1.

Allen Fairhead & Sons Ltd. announce that MR. B. COLLIER, chief surveyor, and MR. J. COALS, contracts manager, have been appointed to the board of directors with effect from October 1.

Company News

The boards of the ENGLISH ELECTRIC CO. LTD. and the GENERAL ELECTRIC CO. LTD. have been jointly considering the general position of the British electrical industry. They feel that many activities of their two groups are complementary and having regard to the interests of shareholders and employees have agreed to explore immediately the practicability of a merger of the two groups by means of a holding company. A further statement will be made as soon as possible.

ACROW (ENGINEERS) LTD. recommend the payment of a final dividend of 12½ per cent (less tax) on the shares of the company for the year ended March 31, 1960.

The Rhodesian Building Forum

A Technical Information Centre

THE RHODESIAN BUILDING FORUM, at present being established at Salisbury under the patronage of the Institute of Southern Rhodesian Architects, is being modelled on similar establishments in London (The Building Centre), Rotterdam and others of their kind. It will provide the architectural and associated professions with a venue for meetings, exhibitions and other activities, and the building industry generally with an organisation for the Federal-wide dissemination and interchange of technical information on constructional materials, applications and techniques. It is an important development for British manufacturers who wish to secure a share of the Federation's substantial building programme.

The Forum will house a permanent exhibition of building materials and finishes currently available to the Central African market, an acoustically-treated auditorium, and a library of technical works, and of architectural, building and engineering journals from all over the world. The building in which it will be located is conveniently situated adjacent to the new headquarters of the Institute of Southern Rhodesian Architects on the first floor of Throgmorton House.

The general committee, which sits under the chairmanship of the president of the Institute of Southern Rhodesian Architects, includes representatives of the Royal Institution of Chartered Surveyors, the Rhodesia and Nyasaland Standards Association, the Federation of Civil Engineering Contractors, the National Federation of Building Trades Employers, the Association of Rhodesia and Nyasaland Industries, the Federal Ministry of Works, and the Rhodesia Railways. Its primary responsibility is to ensure that the Forum functions in the best interests of the professions, the building industry and the general public.

In order to maintain professional standards both in the design and day-to-day conduct of the Forum, the Institute of Southern Rhodesian Architects has appointed a four-man technical advisory committee from among its members; and a well-known architect, Mr. J. A. R. Wilson, has been retained on a permanent basis as technical director. To preserve the professional integrity of the institutions, all commercial aspects of the organisation are being handled by a company especially formed for the purpose by Messrs. Ramsay, Parker Publications (Pvt.) Ltd., who are the official publishers for a number of the bodies connected with it.

Mr. J. A. R. Wilson is at present engaged on a two-month tour of Europe and the United Kingdom, to study the methods and organisations employed by Rotterdam's Bouwcentrum and the building centres at London, Glasgow, Paris and Zurich.

OVERSEAS BUILDING

From Our Own Correspondents

AUSTRALIA (NEW SOUTH WALES).—A Sydney firm has been awarded a contract worth more than £A3m. to build a new Federal Government printing office in Canberra. The company, E. S. Clementson, Ltd., is at present building a major dam in the Upper Cotter River as part of the Snowy River hydro-electric scheme. Work on the new printing office will begin next month and is scheduled to be completed early in 1963.

AUSTRALIA (QUEENSLAND).—Davis Contractors Pty. Ltd., of Sydney, building and civil engineering contractors, wholly-owned by Davis Estates Ltd., of the Wood Hall Trust Group are members of the international consortium which has been awarded the contract for phase one, being the reconstruction of the Richmond-Duchess section of 242 track miles, of the Mount Isa Railway Project. The total estimated cost is £29m.

The consortium is headed by M. R. Hornibrooks Pty. Ltd., of Brisbane, and the other members are Henry J. Kaiser Corporation, Franco Railroad Contractors, and Fletcher Construction Co. The value of the contract awarded for phase one of the Mount Isa Railway project is in excess of £2¼m.

AUSTRALIA (VICTORIA).—Costain, Hansen & Yuncken Pty., a member of the Richard Costain group, have been awarded a contract by the South British Insurance Co., Ltd., to build a 12-storey office block, on the corner of Queen- and Bourke-streets, Melbourne, to be completed by September, 1961.

INDIA.—The Indian Atomic Energy Commission plans to establish three laboratories in Kashmir to conduct research in cosmic rays. Under the scheme —estimated to cost about £300,000—the highest laboratory will be erected at Apharwit, about 13,000 ft. above sea level. The other two at Gulmarg and Khilanmarg.

KENYA.—Nairobi Town Planning Committee is reported by Barclays Bank DCO to have approved plans for the construction of a 23-storey building which, at a height of 220 ft., will be the tallest building in Nairobi.

MALAYA.—The contract for the multi-million dollar North Klang Straits project in Malaya, consisting of three deepwater berths and ancillary works has been awarded to Gammon (Malaya) Ltd., and Christiani-Nielsen, of Denmark. The project is being financed by the American Development Loan Fund. The preliminary works have been started.

RHODESIA AND NYASALAND.—The Federal Government stated on September 13 that work on the first stage of the hydro-electric scheme at Nkula Falls, Nyasaland, should start within a year at a cost of

£3m. The project includes a 420 ft. barrage across the Shire River, at Liwonde, intake tunnels at the power station, two 8 megawatt generating sets, and a main transmission line to Blantyre-Limbe.... The Ministry of Commerce and Industry stated on September 15 that the Federal Government was considering a plan for an oil refinery in the Federation for the manufacture of refined products from crude oil. Mr. R. S. Steinbock, who represents a company to be established with American financial and oil company backing to carry out the scheme, is expected to visit the Federation again in the near future for further talks with the Government with a view to reaching an agreement. A Shell company spokesman said they were also investigating the prospects of establishing a £5m. oil refinery in the Federation.

SOUTH AFRICA (NATAL & TRANSVAAL).—The wood pulp enterprise, South African Paper and Pulp Industries Ltd., is planning extensions totalling over £6m. to its plants at Tuguela (Natal) and Enstra (Transvaal).

Building in Australia

THE LATEST housing statistics show an accelerating rate of increase in building activity which has been maintained over the last few years. The number of dwellings commenced in 1957 was 5.3 per cent in excess of commencements in 1956; in 1958 commencements were 8.6 per cent above those in 1957; and in 1959 the rate of increase reached 9.5 per cent. Comparison with the total number of commencements in the financial year 1958-59 and the estimated number in 1959-60 shows that the annual rate of increase in commencements is now 11.7 per cent.

Overseas Contract Open

GHANA.—The Government of Ghana invites tenders for the construction of dams, power plant and appurtenances in the Volta River project at Akosombo. The work under the contract will include the construction of the main and ancillary structures and the installation of generating plant and other major equipment furnished by the owner. Akosombo, the site of the proposed development, is situated about 60 miles north-east of Accra and is served by first-class roads. Storage of water is to begin by July, 1964, and the first generating unit is to be ready for commercial production by September, 1965. Interested firms should apply to the consulting engineers, Kaiser Engineers and Constructors Inc. (Volta Project), Kaiser Centre, 300 Lake Side-drive, Oakland 12, California, or to Kaiser Engineers and Constructors Inc. (Volta Project), PO Box 1974, Accra, Ghana, for copies of the contract-documents. Two sets may be obtained on receipt of a non-returnable payment of US$50 or £G17 17s. 6d., additional sets may be obtained for £G8 18s. 9d. each. Bids will be received only from contractors who, having submitted the full information required for pre-qualification (forms for this purpose will be enclosed with the tender documents), are subsequently selected by the Government. Pre-qualification forms must be submitted to the consulting engineers in California by October 12. Tenders are invited from qualified contractors as from September 20; site visits from November 1 to 3; pre-bid meeting at Zurich on December 6; bids will be opened in Accra on January 17 and the award of the contract will be made in April, 1961. Preliminary security of £G½m. will be required with tenders.

SCOTTISH BUILDER

Scotland's Housing for August

THE NUMBER OF new houses completed in Scotland in August was 2,107. This brings the total of completions this year to 18,318, an increase of 413 over the same period last year. The monthly return of the Department of Health for Scotland and the Ministry of Housing and Local Government is obtainable from HMSO, price 3d. Of the 399,361 houses built since the war, 361,787 have been built by public authorities and 37,574 by private builders.

Stringent Housing Qualifications

CONCERNED ABOUT the increasing number of applications for houses, Markinch Town Council have agreed that the qualifications for admission to the housing list should be applied stringently. The Housing Committee at their last meeting reviewed the conditions required for admission to the waiting list. One of their recommendations, all of which have been approved by the Council, was that in future no applications should be accepted from people adequately housed outwith the burgh, irrespective of whether or not they are employed in Markinch.

Planning Appointments

GLASGOW CORPORATION has appointed MR. R. E. NICOLL, at present principal planning officer, to be deputy planning officer and MR. L. W. S. CROSS, principal engineer, to be deputy housing officer. These are are both new appointments in the architectural and planning department.

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Lancs. Representative: W. REDMAN, 11, Deneway, High Lane, Stockport, Cheshire. Tel.: Disley 2034

Cost of Building Land

WHILE THE price of building land has risen by about 50 per cent in Scotland in the past three or four years, the increase in Edinburgh has been about 300 per cent, stated MR. C. SMITH, of George Wimpey and Co. Ltd., recently at a meeting of the planning committee of Edinburgh Town Council. The firm were making representations to the committee for consent to develop land at Frogston-road, Edinburgh, for residential purposes. MR. W. D. WISHART, the firm's planning consultant, said that one reason for the price rise was that insufficient land was zoned for private development compared with the demand. If land prices continued to increase houses could not be built at a price which people could afford.

Glasgow Hotel Site Refused

THE PROPOSAL to build an eight-storey hotel over the underground station in St. Enoch-square, Glasgow ('The Builder' of September 9) is unlikely to gain the approval of the Corporation, who own the ground. The General Finance Committee have recommended that the Corporation should not make the site available for the proposed development, which was sponsored by a syndicate headed by Mr. J. Glasgow, a local industrialist and business man. The convenor of the Committee, Mr. J. Johnston, is reported to have stated that representations would be made to the Planning Committee from his committee about other possible redevelopments of the site. He declined to indicate what these were.

New Buildings

ARGYLL CC.—Construction of a filter house and sludge lagoons and laying 300 yds. of 4in. AC water mains at Port Charlotte, Isle of Islay. County Engineer, Lochgilphead, Argyll.

ARGYLL CC.—Reconstruction of Balliemore Bridge and approaches. Construction of reinforced concrete slab bridge, 30 feet span and approx. 500 yds. of single lane carriageway. County Engineer, Lochgilphead, Argyll.

ARGYLL.—CC are considering an offer of £50,000 towards the cost of building a pier at Craignure, Mull, made by Mr. Neil Cameron, a native of Tobermory.

HAMILTON BURGH.—Erection of 23 houses and four lock-up garages at Ferenezecres., Hamilton. Several works contract. Burgh Architect, 56 Brandon-st., Hamilton. Dep. £2.

OBAN BURGH.—Site preparation work for the erection of 175 houses and two shops at Corran Brae housing development. TC, Municipal Buildings, Oban.

ROSS & CROMARTY CC.—Construction of new road between Shieldaig-Torridon, approx. 7½ miles long. Experienced contractors should apply, giving particulars of experience to Babtie, Shaw & Morton, 17 Blythswood-sq., Glasgow, C2.

Scottish Wages

Wages for craftsmen, labourers, apprentices and young male labourers in Scotland will be found in the Rates of Wages tables, shown this week on page 674. Scottish wages will not in future be shown separately.

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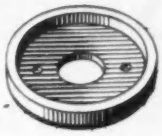

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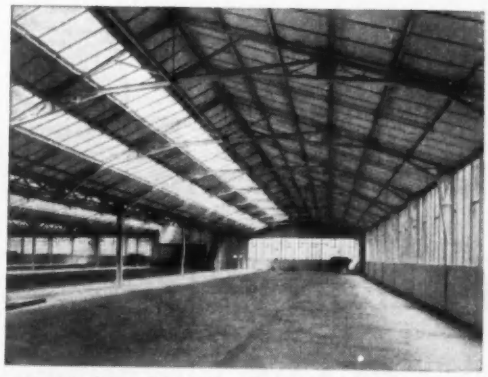

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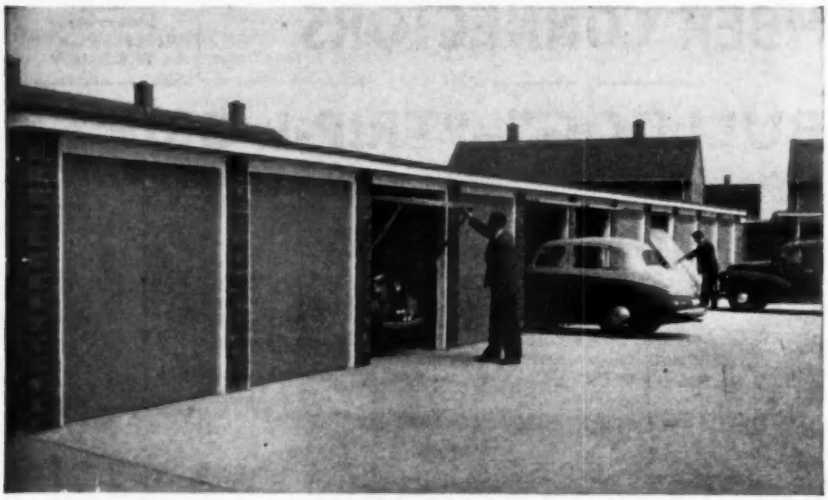

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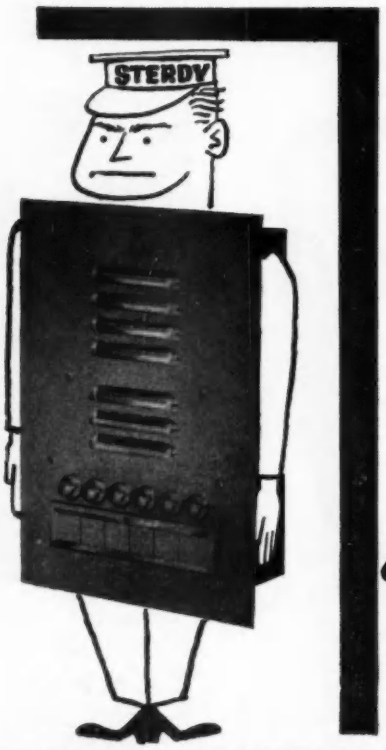

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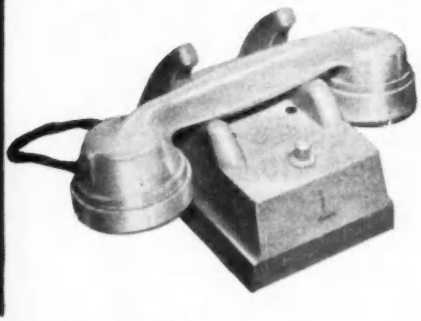

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AP67.

THE BUILDER CONSTRUCTION NEWS

Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those preceded by the symbol (A) are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. The symbol (R) preceding each entry indicates that applications must be received by this date.

BUILDING

OCTOBER 10

(AR) ORPINGTON UDC—Firm price tenders for the erection of a single-storey office building at The Walnuts, High-st. E&S. Dep. £2. Tenders by Nov. 10.

(A) SCUNTHORPE BC.—Erection of one 14-storey block of 79 flats at Westcliff estate. TC. Dep. £5 5s.

(AR) SOUTHAMPTON CBC.—Erection of: (a) 95 houses at Thornhill estate; (b) four houses at Gover-rd., Millbrook; (c) 140 flats at Thornhill estate. Boro' E.

OCTOBER 12

(AR) BIRMINGHAM CITY 6.—(a) Construction of a brick and timber sports pavilion at Kents Moat recreation ground, Birmingham 23. (b) Site levelling; surface and foul water drainage; concrete paths; tennis courts and netball pitches; car park; children's playground; ground preparation; grass seeding; supply and planting of trees, shrubs, etc., for the above. Gen. Mgr. Dep. £2 2s. (each contract). Tenders by Nov. 14.

(AR) GLOUCESTERSHIRE CC.—Proposed hostel accommodation and extensions to Gloucestershire Training College of Domestic Science. County A.

OCTOBER 13

(AR) BRISTOL CITY C.—Fixed price tenders for changing accommodation, public conveniences and part shelter at Kingshead-la. recreation ground, Bishopsworth. City A.

(AR) SURREY CC.—Extensions to Brookwood county prim. sch., Woking. County A.

(AR) SURREY CC.—Extensions and adaptations to Cobham county infants sch. County A.

OCTOBER 14

(AR) BLACKPOOL CBC.—Erection of 102, or alternatively 111, flats and 59 garages, etc., at Grange Park estate extension. Boro' S.

(AR) BOGNOR REGIS UDC.—Fixed price tenders for 34 flatlets for elderly persons at Corbishley-rd. E&S. Dep. £3 3s. Tenders by Nov. 4.

(AR) WEST SUSSEX CC.—Fixed price tenders for alterations and extensions to Storrington Rydon sec. mod. sch. County A.

OCTOBER 15

(AR) ESSEX CC.—Firm price tenders for the erection of firemen's houses at Chelmsford. County A.

OCTOBER 17

(AR) FOLKESTONE BC.—(a) Erection of one maisonette, one flat and a garage in four-storeys between 3-7 Radnor Bridge-rd. (b) Erection of one block of three flats in three-storeys, with stores and garages, at Rossendale Court, Dover-rd. Boro' E. Dep. £2 2s. (each contract).

(AR) NORTHAMPTONSHIRE CC.—(a) Erection, or electrical installation, at Beanfield infants' sch., Corby, and Roade mod. sch. County A.

OCTOBER 21

(AR) EAST SUSSEX CC.—Erection of a pair of semi-detached houses with garages at Hill-rd., Lewes. County A.

OCTOBER 25

(A) ILFORD BC.—Erection of structural foundations and framework involved in the construction of proposed shops and office block, etc., at Ilford Broadway. Boro' E&S. Dep. £5 5s.

(A) PRESTWICH BC.—Fixed price tenders for the erection of five old people's bungalows at Turnbull-ave. Boro' E. Dep. £5 5s.

(A) WING RDC.—Erection of one pair of type 'S' houses, with drainage and site works, at Church-la., Cheddington. H. A. Rolls, Ccl's architect, 15 Bridge-st., Leighton Buzzard. Dep. £2 2s.

OCTOBER 26

(A) CROSBY BC.—Erection of 15 bungalows for aged persons, at Little Crosby-rd. Boro' E&S.

OCTOBER 28

ARMAGH COUNTY WELFARE COM.—Erection of a home for old people at Gilford-rd., Portadown. W. H. Stephens & Sons, chartered quantity surveyors, 40 High-st., Portadown. Dep. £5 5s.

(A) CHATHAM BC.—Erection of an old people's home at Wayfield-rd. E&S.

NOVEMBER 1

(A) BERKSHIRE CC.—Erection of two pairs of standard police houses at Turnpike-rd. estate, Newbury. County A. Dep. £2 2s.

(A) NEW SARUM CITY C.—Fixed price tenders for 10 houses and four flats, etc., at Stratford-rd., Salisbury. City E.

NOVEMBER 4

(A) HESTON & ISLEWORTH BC.—Erection of second stage of new works depot at Bridge-rd. Boro' S. Dep. £2 2s.

NOVEMBER 7

(A) WIDNES BC.—Fixed price tenders for the erection of Wade Deacon grammar sch. for girls. Boro' A. Dep. £2 2s.

NOVEMBER 8

(A) NORTHAMPTON CBC.—Erection of pavilion-changing accommodation at Dallington Park. Boro' A. Dep. £2 2s.

NOVEMBER 11

(A) NEW WINDSOR RBC.—Erection of two maisonettes at Clewer New Town. Boro' E. Dep. £2 2s.

NOVEMBER 14

(A) ST. ALBAN'S CITY C.—Erection of 48 houses and 76 garages at Jersey Farm estate. City E&S. Dep. £3 3s.

NOVEMBER 17

(AR) EAST SUSSEX CC.—Erection of a three-classroom CoE sch. County A.

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OCTOBER 12

(AR) BRISTOL CITY C.—Fixed price tenders for: (a) Installation of engineering services, including modifications to existing oil-fired heating and domestic hot water supply, with cold water, gas supply and ventilation in new biological science block, College of Advanced Technology, Ashley Down, Bristol. (b) Electrical installation at the above from contractors on the Roll of the National Inspection Council for Electrical Installation Contracting. City A.

OCTOBER 24

(A) HESTON & ISLEWORTH BC.—Re-planning of kitchen at Cranford jun. sch. Boro' E&S.

(A) KINGSTON-ON-THAMES RBC.—Renewal of existing tarmacadam front entrance paths in concrete at approx. 45 house on Norbiton estate. Boro' S. Dep. £2 2s.

OCTOBER 28

(A) EALING BC.—Construction of new pile retaining wall and the improvement of the existing retaining wall with massed concrete buttresses, at Occupation-rd., South Ealing. Boro' E. Dep. £5.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

OCTOBER 17

ST. MARYLEBONE MBC.—Fixed price tenders for roadworks at St. John's Wood-rd./Grove End-rd., comprising the widening and reconstruction of the carriageways and other incidental works. Brassey Edwards & Stowell, Ccl's constg. engrs., Maxwell-hse., Arundel-st., WC2. Dep. £5 5s.

OCTOBER 20

SCOTTISH HOME DEPT.—Construction of a new prestressed r.c. bridge over the railway at Braidwood, Lanarkshire, with roadworks associated with the realignment of A.73 for a distance of approx. ¼ mile at Braidwood Station. The structure consists of a 30ft. clear span bridge approx. 270ft. wide. The roadworks include embankments and retaining walls. F. A. MacDonald & Ptnrs., constg. engrs., 11 Woodside-terr., Glasgow, C3. Dep. £15.

OCTOBER 21

(R) HAVERHILL UDC.—Reconstruction of the existing sewage disposal works, including a new pumping station, inlet works, sedimentation tank, filter beds, humus tanks and sludge drying beds, with the modification of existing units and other ancillary work. Howard Humphrey & Sons, Ccl's constg. engr., West-st., Epsom, Surrey. Dep. £3 3s. Tenders by Oct. 28.

OCTOBER 22

RYEDALE JOINT WATER BD.—Laying of approx. 14,825 lin. yd. of 6in. dia. water main, and ancillary works, from Schoolhouse Hill, Marishes (nr. Malton), to a point near Knapton Station. D. H. Moore, constg. engr., 12 Valley Bridge Parade, Scarborough. Dep £2 2s.

OCTOBER 24

HUCKNALL UDC.—Improvement and reconstruction of Popplewick-la. E&S. Dep. £2 2s.

OCTOBER 25

ILFORD BC.—Reconstruction of approx. 6,700 sq. yd. of carriageway at High-rd. (A.118), involving the removal of granite sett paving and the preparation of the existing concrete foundation for asphaltic surfacing, which will be carried out by a nominated sub-contractor, for re-laying approx. 1,140 lin. yd. of granite kerb and for the provision of additional gullies, and all ancillary works. Boro' E. Dep. £2 2s.

NOVEMBER 4

RUNCORN RDC.—Fixed price tenders for the construction of about 7,000 lin. yd. of 9 and 6in. dia. glazed stoneware pipe sewers with manholes and sewage disposal works, etc., at Kingsley. A. H. S. Waters & Ptnrs., constg. engrs., 25 Temple Row, Birmingham, 2. Dep. £5 5s.

NOVEMBER 10

NORTHERN IRELAND MINISTRY OF COMMERCE.—Construction of three bridges, with ancillary works, and four miles of roadwork between Lisburn-rd., Dunmurry, and Saintfield-rd., Lisburn. Ministry of

Commerce, Room 67, Chichester-hse., Chichester-st., Belfast. Dep. £25.

GENERAL BUILDING WORK

(LONDON)

STOKE NEWINGTON.—New Office Block.—A new office block to be known as Capitol House is to be built on the site of the old Capitol Cinema in Green Lanes, Winchmore Hill. Work has begun on the foundations of the new building, which is expected to be ready for occupation towards the end of 1961. Capitol House will be in two adjoining blocks, one carried on stilts with four floors above and the other on ground and five upper floors, providing a total of just under 60,000 sq. ft. at a cost of about £350,000. It is the latest development in the policy of office dispersal pursued by the Rodwell Group, and would incorporate all the experience of office dispersal possessed by the group. The design is by Raymond Spratley and Partners.

(PROVINCIAL)

AMESBURY.—RDC's architect has prepared lay-out plans for old people's bungalows on land east of The Avenue, Amesbury. Details are to be submitted to MH&LG. . . . Approval has been given to the proposed addition of two classrooms, stores and lavatory extensions at Amesbury CoE aided sch.

ANDOVER (Hants.).—NW Hants Area Planning Com. has approved the building of old people's bungalows on three-quarters of an acre at the rear of the George Inn, Vernham Dene, for RDC, and has recommended approval to an application by Capt. D. G. Reynalds for permission to use land for assembly of garden machinery at Craydown-la., Over Wallop.

BELPER.—RDC are seeking sites for housing purposes.

BLACKBURN.—Daniel Thwaites & Co. Ltd. propose rebuilding the Waterloo Hotel. . . . Church Auth. propose rebuilding Trinity Methodist Church, Lammack. Est. £16,700. . . . Following for BC: Redevelopment at King-st./Byron-st./Chapel-st.; erection of ambulance station at George-st. west.

BLACKWELL.—UDC propose housing development on land adjoining Tibshelf Old People's Club.

BOLDON (Co. Durham).—The Council are planning the erection of 50 terrace houses at North-rd., Boldon Colliery, and a number of bungalows are proposed on derelict gardens on the Boldon Colliery housing site. Council's Surveyor is J. T. Edmondson. . . . County Planning Auth. have approved the UDC's proposals to erect 68 houses on a site of 5.3 acres at Whitburn.

BRACKNELL (Berks.).—Berkshire EC has approved the erection of the first instalment of the South-East Berks. College for Further Education at Bracknell at a total estimated cost of £156,503. . . . MoE has approved the inclusion in 1962/63 major building programme of the first instalment of a county grammar sch. Est. £145,744.

BRADFORD. — Following for Leeds Regional Hospital Bd.: 600-bed hospital at Horton Green; remodelling of St. Luke's Hospital.

BRANDON (Co. Durham).—Plans are being prepared by the CWS Architects' Dept., 90 Westmorland-rd., Newcastle-on-Tyne, for the erection of a distribution depot at Langley Moor for East Durham Co-operative Dairies Ltd., Wingate.

BURGHCLERE (Hants.).—Mr. G. H. Behrend is seeking permission to build 15 houses on 7 acres of land at Reeves Piece.

BURNLEY.—BC propose erection of new bus station at Pickup Croft. . . . Joseph Lucas (Gas Turbine Equipment) Ltd. propose new factory on 15 acres land at Eastern-ave. . . . Lord Shuttleworth seeks planning permission to develop Glen View-rd. for 80 dwellings. . . . Masseys (Burnley) Brewery Ltd. propose erection of new premises at Boot-st.

BURTON-ON-TRENT.—BC propose erection of 16 dwellings at Ashby-rd.

BURY.—BC propose adaptations and alterations to School for Arts and Crafts. . . . BC propose erection of 76 flats at Price-st./Killon-st.

Contracts Placed

We are glad to receive from architects and quantity surveyors for publication details of contracts placed to the value of £20,000 or over. Such information should reach the Editor as soon as possible after the contract is signed. Names of the architect and other consultants associated should be given.

CALNE & CHIPPENHAM (Wilts.).—MH&LG has approved five housing schemes for inclusion in District Council's approved proposals for this year. Authority to proceed is subject to tenders being submitted by Dec. 31, 1960. The development is at Prospect site, Corsham (50 dwellings); Corsham Site 1A (47); Corsham central area development (25) and Derry Hill, Pewsham (14 old people's bungalows).

CARLISLE.—John Laing & Son Ltd. propose developing 37 acres of land at Knowsfield for housing purposes.

CHEADLE (Staffs.).—Birmingham RC Diocesan Trustees propose erection of new sch. at Station-rd.

CHESTER.—Marks & Spencer Ltd. propose shop extension, after demolition, at Forgate-st.

CHESTERFIELD.—RDC propose erection of 100 houses at North Wingfield.

CREWE.—BC propose erection of 64 houses at Middlewich-st. for BC.

DARLINGTON. — Samuel Smith Old Brewery (Tadcaster) Ltd. have approached the TC about the possibility of erecting a residential hotel in the town. . . . Holy Trinity Church are seeking a site for the erection of a church to serve the Hummersknott and Mowden estates.

DAWLEY (Salop.).—UDC propose housing development at Langley Farm estate.

DEWSBURY.—BC propose erection of 82 dwellings at Thornhill Lees redevelopment area. . . . Marks & Spencer Ltd. propose store extensions at Rearbond-st.

HALIFAX.—BC propose new market at Woolshops.

HAMPSHIRE.—SW Hants Area Planning Com. has recommended approval for: Houses for New Forest RDC on about 8 acres of land off the Northerwood estate, Bournemouth-rd., Lyndhurst; self-contained main dental clinic nr. Totton; new jun. sch. off Crete-rd., Dibden Purlieu; village hall in Long-la., Marchwood; new county mixed grammar sch. at Hoburne, Highcliffe; fire station at Lyndhurst-rd., Brockenhurst.

HARTLEPOOL.—Taylor & Evans Ltd., builders and contractors, 22 Elwick-rd., West Hartlepool, are to erect groups of 50 and 66 houses in the King Oswy-dr. area and plans are being considered by the planning authorities.

HEYWOOD (Lancs.).—CC propose erection of training centre for mentally handicapped persons.

HOUGHTON-LE-SPRING.—It is proposed to convert the Coliseum Cinema, Newbottle-st. into shop premises for the Howard Collings Group of Companies, London. Architect is Ivor Hodges, LRIBA, 10 Grays Inn-sq., London, WC1. . . . Isaac Berriman Ltd., builders and contractors, Fence Houses, propose housing developments at North View, and similar developments are proposed at Quarry-rd., and Station-rd., Shiney-row, for William Leech Ltd., of St. James-st., Newcastle-on-Tyne.

LEEDS.—Arndale Property Trust Ltd. propose erection of banks, 29 shops and basement bowling alley at Otley-rd. . . . School Governors propose alterations to grammar sch.

LIVERPOOL.—James Austin Ltd. propose new factory at Gaskall-rd. . . . Elliott Bros. & Yeoman Ltd. propose engineering factory of 35,000 sq. ft. . . . Following for TC: Re-building of bombed museum building at William-st., £400,000 est.; 16 maisonettes, 8 flats and four shops at Warwick-st.; 47 houses and 115 maisonettes at Childwall Valley estate; 16 flats, 38 maisonettes, 8 shops and 12 garages at Latimer-st.

LYDIATE.—Lancs. EC propose erection of two-form jun. sch. at Northway.

LYTHAM ST. ANNES.—T. T. Bird propose erection of 10 detached bungalows/garages at Kirton-cres. . . . A. L. Talbot Ltd. propose block of 4 flats and 4 garages at St. Anne's-rd. east. . . . Clifton Aircraft Co. propose new work bay at West Cliffe. . . . H. T. DeVere Clifton proposes residential development at Heyhouses-la . . . Anderson & Moss Ltd. propose block of 9 flats and 9 garages at Heyhouses-la. . . . Lancs. EC propose erection of a two-form jun. sch. at St. Leonard's-rd. east. . . . Following for BC: Housing development at Saltcotes-rd.; erection of 86 flats on various sites.

MACCLESFIELD.—BC propose erection of covered market at Market-pl. . . . W. Hargreaves & Co. Ltd., Cheadle, Staffs., propose new factory at Hurdsfield industrial estate. Est. £80,000.

MAGHULL.—Lancs. EC propose extension to four-form entry grammar sch.

MANCHESTER.—I. Nield & Co. Ltd. propose erection of 20 three-storey maisonettes at Palatine-rd. . . . F. J. Gibson (Builder) Ltd. propose 13 houses/garages at Wendover-rd., Brooklands. . . . Geo. L. Dennis, proposes converting a house into nine flats at Withington-rd., Whalley Range. . . . Salford RC Diocesan Trustees propose extensions at St. Ignatius sec. mod. sch., Greenheys. . . . National Motor Accident Insurance Union Ltd. propose converting warehouse to offices at Princess-st. . . . ICI Ltd. propose pump house and cooling tower at Crumpsall Valewks., Blackley. . . . Heaton Mills Printing Co. Ltd. propose mill extension at Heaton Mills, Higher Blackley.

MELLING.—Lancs. CC propose erection of child welfare centre.

MIDDLESBROUGH. — Alterations and additions are proposed to offices at Longlands-rd. for Priest Furnaces Ltd. Architect is E. W. Chapman, 125 Acklam-rd., Thornaby-on-Tees. . . . The North-Eastern Evening Gazette Ltd. are to carry out additions to their newspaper offices at 105-9 Borough-rd. to plans by Ellis, Clarke & Gollannaugh, 37 Soho-sq., London, W1. . . . A new engineering and commercial depot is to be built at Cargo Fleet-la. for the North-Eastern Electricity Bd., Carliol-hse., Newcastle-on-Tyne. Sketch plans have been prepared by L. J. Couves & Partners, Grainger-chbrs., Hood-st., Newcastle-on-Tyne. . . . Kitching & Co., 21 Albert-rd., Middlesbrough, have prepared plans for single-storey shop and store at Stockton-st. for Miss K. March. . . . Premier Dwellings (Cleveland) Ltd., builders, 157 Albert-rd., Middlesbrough, are to erect eight pairs of bungalows near Virginia-gdns., to plans by Garbutt, Archibald & Archibald, 23 Albert-rd., Middlesbrough. . . . Plans are still being considered by the planning authorities

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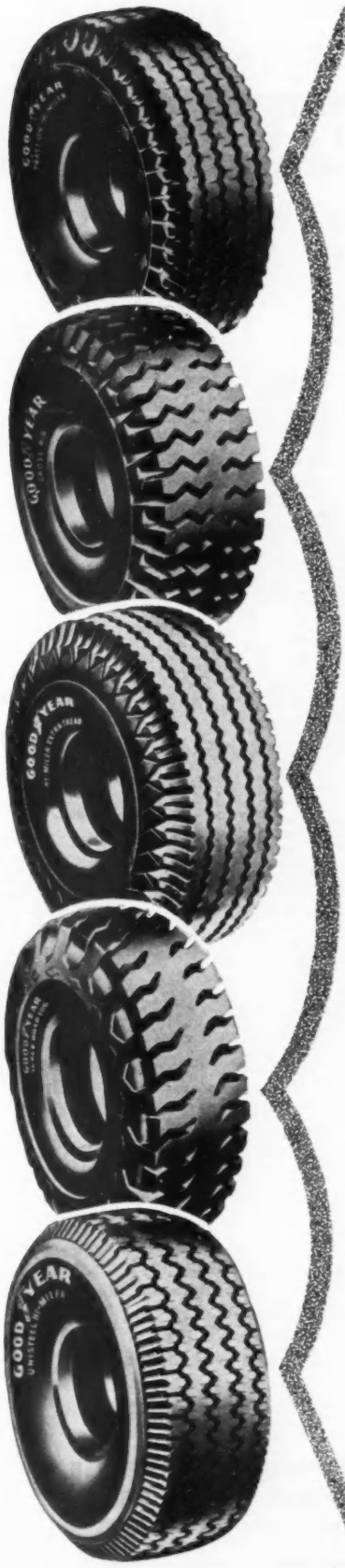

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for a three-storey block of offices, showrooms, etc., at Bolckow-st. for F. Durkin. Architect is T. A. Crawford, 80 Borough-rd., Middlesbrough. . . . Boro' E has prepared outline plans for old people's hostel at Beechwood.

NEWBIGGIN.—UDC is to buy 35 acres of land for £17,500 at Newbiggin Moor for the erection of about 350 houses.

NEWCASTLE-ON-TYNE. — St. Andrews Motors Ltd., Gallowgate, Newcastle, are to erect showrooms and offices at George-st. Architects are M. & H. Gatoff, 26 Mosley-st., Newcastle. . . . The Norwich Union Insurance Societies Ltd., Norwich, are to carry out alterations to 89-81 Jesmond-rd. to form offices and flats. . . . Hepworth Ltd., Leeds 2, are to erect shop premises at 26-28 Blackett-st., and have prepared plans. . . . Plans are in hand for factory extensions at Water-st. and Penn-st. for Austin Lifts Ltd. Architects are Tasker & Ptnrs. . . . Plans are being prepared by Mauchlen, Weightman & Elphick, of Newcastle, for extending residential flats at West View for L. T. Portman Ltd. . . . Work is to start next year on extensions to the Students' Union and the erection of a new refectory at King's College, Newcastle, for Durham University. The scheme, which has received planning approval, will cost over £400,000. The architect is William Whitfield, 36a Queensgate, London, SW7. . . . Newcastle United Football Club are to erect a new grandstand at their St. James' football ground. The scheme is being discussed between the architect, E. M. Lawson, Barras-bldgs., Barras Bridge, Newcastle-on-Tyne, and the city planning authorities. . . . The City Council's scheme for a new College of Commerce at St. Mary's precinct has been approved. It is also proposed to erect a College of Industrial Design on a nearby site, and work on both schemes is expected to start in 1962-63. City A is G. Kenyon, 18 Cloth Market, Newcastle-on-Tyne.

ORMSKIRK.—Lancs. EC propose extension to Edge Hill Training College. Est. £478,074.

OXFORD.—MoE has approved new buildings for the Department of Catering and Hotel Management at the Oxford College of Technology. Est. £68,000.

PADIHAM.—UDC propose erection of public baths. Est. £70,000.

PORTSMOUTH.—City C's Welfare Services Com. have approved in principle the erection of a home for 35 aged people on site at Prince George-st., Portsea, and are asking for site in Velder-ave., Milton, for another to accommodate 60 old people.

RAMSBOTTOM.—UDC propose housing development at Edenfield.

READING.—EC's Finance & General Purposes Sub-Com. recommends that plans for an extension to Reading Technical College to increase student capacity from 1,750 to 2,300 should be approved for submission to MoE and to the TC's Town Planning & Buildings Com. . . . MoE has included proposed new Coley Park county infant sch. in Authority's major building programme for 1962-63 and has stated he would be prepared to consider inclusion of the Alfred Sutton county sec. sch. in the 1963-64 programme.

SADDLEWORTH.—West Riding CC propose erection of old people's dwellings at Uppermill. Est. £34,000.

SALE.—Chester Diocesan Auth. propose erection of new Daughter Church at Budworth-rd.

SALISBURY.—MoE has approved Wilts Education Committee's programme for 1962-63 which includes: (a) Extension to South Wilts grammar sch., Salisbury (£54,000); (b) new county sec. for 300 pupils at Downton (£111,805); (c) new county infants' sch. for 240 pupils at Tidworth (£45,100).

SHEFFIELD.—Sheffield University authorities propose erection of 11-storey residential hall at Endcliffe Vale-rd.

SHEVINGTON.—Lancs. EC propose erection of county sch. at Church-la.

SKELMERSDALE.—CC propose development of new town to start within next five years. Est. £35m.

SWINDON.—Wilts. CC have agreed in principle to TC's plans to develop 400 acres of land east of Walcot for housing and industrial use.

TADLEY (Hants.).—Davis Estates Ltd. propose erecting 40 houses and bungalows at Mulford Hill and six shops with flats above at Franklin-ave. . . . Barry Side & Co. propose erecting 20 bungalows next to the New Inn, off Rowan-rd., Tadley.

TOTTON.—MoT has informed Hampshire CC that they will receive formal authority shortly to prepare an improvements scheme for the Totton-Redbridge Causeway, lay-out of which has been approved in principle. Est. £1m.

UPHOLLAND.—T. Griffiths & Sons (Builders) Ltd. propose residential development at School-la. . . . T. Dickinson & Sons propose erection of 73 bungalows at Chequer-la.

TENDERS

(A) Denotes *accepted*.
(PA) Denotes *provisionally accepted*.
(RA) Denotes *recommended for acceptance*.
(AM) Denotes *accepted subject to modification*
(GD) Denotes *accepted subject to approval by appropriate Government Department*.

APPLETON.—Erection of new CoE sch. E. R. Chilton, FRIBA, architect. (A) W. E. Cotmore & Son, £16,000.

BALLYMENA (Co. Antrim).—Erection of 18 houses at Kells for RDC. (A) David Patton & Sons, Ballymena.

BARNSLEY.—Erection of 80 dwellings on various sites for BC. (A) Direct labour, £94,765.

BURSCOUGH.—Erection of RC schools at Chapel-la. for RC Auth. (A) J. & R. Woods, Burscough.

CARLISLE.—Erection of a television centre for Border Television Ltd. Architect is E. M. Lawson, Barras-bldgs., Barras Bridge, Newcastle-on-Tyne. (A) Cussins (Contractors) Ltd., The Drive, Gosforth, Newcastle-on-Tyne.

CHEPSTOW (Mon.).—Erection of 336 'No Fines' houses, with roads and sewers, for UDC. (A) Geo. Wimpey & Son Ltd., £433,190.

CREWE.—Erection of 14 houses and 52 flats at Badger-ave. for BC. (A) Direct labour, £83,847.

EASTBOURNE.—Erection of shops and flats at Seaside-rd. for Shop Parades Ltd. T. Mortimer Burrows & Ptnrs., architects and quantity surveyors. (A) Y. J. Lovell (Sussex) Ltd., £23,447.

GUILDFORD.—Erection of new public library for BC. Highet & Philips, architects. F. W. Norris, quantity surveyors. (A) Y. J. Lovell (Sussex) Ltd., £112,833.

HARTLEPOOL.—Following for TC: Erection of 30 houses at Hart Station. (A) Atter & Davison, 41 Northgate, Hartlepool, £56,470. Erection of 32 houses and 16 maisonettes at Milbank-cres. area. (A) Atter & Davison, £65,457.

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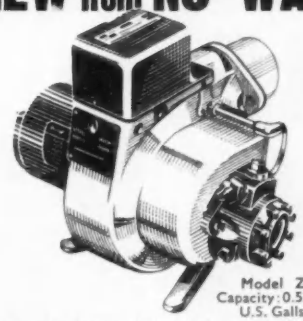

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(Box. B287) DROITWICH.

HECKMONDWIKE. — Erection of 37 houses for UDC. (A) Gregory Housing Ltd., Worthing.

HORSHAM.—Erection of shops, maisonettes and garages at Queen-st. for The Montague Group of Companies. H. Owen Luder, architect. C. R. Wheeler, quantity surveyor. (A) Y. J. Lovell (Sussex) Ltd., £32,729.

HOUGHTON-LE-SPRING.—Following for UDC: Erection of 32 aged persons' bungalows at Durham-st., Fenchouses. (A) Direct labour, £43,329. Erection 30 old people's bungalows and six houses at Burnside estate. (A) Direct labour, £41,051.

KEIGHLEY.—Erection of 37 flats for BC. (A) Gregory Housing Ltd., Worthing.

LANCS.—Following for EC: New infants' sch. at Leyland-la. (A) A. H. Anderson Ltd., Victoria-st., SW1, £30,795. Erection of county sec. sch. at Tarleton. (A) John Laing & Sons Ltd., Mill Hill, London, NW7, £116,612.

LEWISHAM.—Erection of buildings and other ancillary work comprising stage 2 of the Town Hall redevelopment for BC. (A) G. Wallis & Sons Ltd., £242,561.

LIVERPOOL.—Following for City C: Alterations at Edge-la. Works. (GD) William Tomkinson & Sons Ltd., 7, Great Newton-st., Liverpool 3, £27,427. Erection of 24 dwellings at Kirkby-row, Kirkby. (GD) Unit Construction Co. Ltd., Speke Boulevard, Liverpool 24, £34,956. Erection of 21 dwellings and 29 garages at Hillside-rd., Huyton, 20 dwellings at Broadway, four shops and 24 dwellings at Prince William-st., and 24 dwellings and 48 garages at Menlove-ave. (GD) R. J. Barton & Sons Ltd., Altcar-rd., Formby, £39,762, £46,156, £69,864 and £65,981 respectively. Erection of aged persons' hostel at Leyfield-rd. (GD) David Lesley (Contractors) Ltd., 20 Tithebarn-st., Liverpool 2, £71,353.

LONDON (City).—Erection of new Bakers' Hall for the Bakers' Company at Harp-la., EC4. Trehearne & Norman, Preston & Ptnrs., architects. (A) Wates Ltd.

(GD) LONDON (Air Ministry).—Contracts to the value of £4,000 or over for week ended September 30: *Building work:* St. Mawgan, Cornwall; F. R. Hipperson & Son Ltd., Invicta-hse., Wantz-rd., Dagenham, Essex. Lakenheath, Suffolk; Walter Lawrence & Sons Ltd., Ventnor-hse., London-st., Swaffham, Norfolk. *Civil engineering (construction hardstanding), etc.:* Hurn Airport, Hants.; Tarmac Civil Engineering Ltd., Ettingshall, Wolverhampton, Staffs. *Surfacing to existing paved areas:* Church Fenton, Yorks.; John Hinchcliff & Son Ltd., PO Box No. 3, South Elmsall, Pontefract, Yorks. *Roofing work:* Innsworth, Glos.; The General Asphalte Co. Ltd., Albert-rd., St. Philip's, Bristol 2.

(GD) LONDON (British Railways).—New contracts placed by Western Region: Provision of additional accommodation in connection with the fuelling facilities for diesel railcars at Tyseley; Jenks Builders Ltd., Wolverhampton. Renovation of the booking hall and inquiry office at Bristol (Temple Meads) Station; Stone & Co. (Bristol) Ltd., Bristol 6. Conversion of the existing running and maintenance depot for diesel locomotives at Bristol (Bath-rd.); Kyle, Stewart (Contractors) Ltd., Wembley, Middx.

(GD) LONDON (MoW).—Contracts placed for week ended September 24: *Flintshire:* Decoration work at War Department storage depot, Valley Works, Rhydymwyn; J. Ferguson & Co. (Dec) Ltd., Gore-st., Salford 3, Lancashire. *Glamorganshire:* Alterations to Head Post Office, Merthyr Tydfil; Heaton Lee Ltd., 110 High-st., Dowlais. *Kinrossshire:* Erection of Post Office, High-st., Kinross; J. R. & A. Adam Ltd., 35 North-st., Lochgelly. *Lancashire:* Erection of telephone exchange, Moor-la., Preston; L. Fairclough Ltd., Chapel-st., Adlington. *London:* New boiler plant at Somerset-hse., WC2; T. G. Waterman Ltd., 187/189 Whitechapel-rd., E1. Internal cleaning and decorations at Government Offices, Gt. George-st., SW1; Architectural Decorators Ltd., 79 Eccleston-sq., SW1. *Middlesex:* Internal decorations at National Physics Laboratory, Queen's-rd., Teddington; A. Bagnall & Son Ltd., 106-108 High-st., Teddington. *Renfrewshire:* Erection of telephone exchange, Lintwhite-cres., Bridge of Weir;

Jas. Y. Keanie Ltd., Floors-st., Johnstone. *Shropshire:* Erection of 12 houses at Prison Commission housing site, Harlescott Grange, Shrewsbury; M. A. Boswell (Cont.) Ltd., 'Merriedale,' 124 Compton-rd., Wolverhampton, Staffordshire. *Yorkshire:* Provision and installation of diesel generators at War Department, Imphal Barracks, York; English Electric Co. Ltd., Diesel Engine Division, Brownsover Hall, Rugby, Warwickshire.

(GD) LONDON (War Dept.).—Contracts placed for week ended Sept. 23:—*Dorset:* Building at Bovington; Burt & Vick Ltd., Poole. *Gloucestershire:* Building at Gloucester; John Simmonds (Gloucester) Ltd., Gloucester. *Hampshire:* Building at Bordon; W. E. Chivers & Sons Ltd., Devizes. Building at Farnborough; J. B. Edwards (Whyteleafe) Ltd., Kenley. *Oxfordshire:* Roofing at Bicester; Bitumen Associates (Egham) Ltd., Slough. Painting at Bicester; F. & J. Pilling (Bros.) Ltd., London, E8. *Surrey:* Building at Pirbright; Henry T. Hill & Son Ltd., Brookwood. Hot water at Caterham; H. Humphrey & Co., London, EC2. *Warwickshire:* Electrical at Kineton; James Scott & Co. (Electrical Engineers) Ltd., Glasgow, C3. *Wiltshire:* Building at Warminster; S. W. Foster Ltd., Radstock.

MANCHESTER.—Erection of a PH at Chapel-la., Higher Blackley, for Cornbrook Brewery Co. Ltd. (A) F. J. Gibson (Builder) Ltd., Wilmslow.—Alterations and extensions to the Lake Entrance Hotel for Belle Vue (Manchester) Ltd. (A) H. Fairweather & Co. Ltd., London, N10.—Extensions to St. Joseph's girls sec. technical high sch. for Salford RC Auth. (A) John Dickinson & Co. (Bolton) Ltd.

MIDDLESBROUGH. — Erection of eight-storey building, comprising offices, conference suite and showrooms, etc., at Borough-rd. (A) John T. Bell & Sons Ltd., Newcastle-on-Tyne.

NEWCASTLE-ON-TYNE.—Following for City C: Erection of 125 houses, 12 flats and 63 garages at Newbiggin Hall estate. City A is G. Kenyon. (A) John Twiname Ltd., Brigham, Cumberland, £254,013. Erection of 108 maisonettes, 45 houses and 54 garages in the Walker-rd. redevelopment area. (A) J. H. Fisher & Co. (Newcastle) Ltd., Gosforth, £323,495. Reconstruction and widening of Fawdon-la. from the city boundary to Fawdon Park-rd. City E is D. T. Bradshaw. (A) Direct labour, £22,870. Erection of 48 maisonettes and eight garages in the Sheffield redevelopment area. (A) J. H. Fisher & Co. Ltd., £108,987. Proposed extension to the municipal museum at Exhibition Park. (A) A. H. Anderson Ltd., London, SW1, £10,687.

NEWTON AYCLIFFE (Co. Durham).—Erection of 132 houses and 47 lock-up garages for Aycliffe Development Corpn. Chief Architect is G. A. Goldstraw. (A) Direct labour.

NORTH SHIELDS.—Alterations and extensions to former laundry building to provide an x-ray dept. at Tynemouth Victoria Jubilee Infirmary for Newcastle Regional Hospital Bd. George Gray & Ptnrs., architects, in conjunction with Bd.'s Ch. A. (A) R. Jordan Ltd., £18,720.

NORTH SHIELDS.—Construction of new hailing station in the River Tyne for Lloyd's Register of Shipping. (A) J. G. Thompson and Sons (Contractors) Ltd., Fowler-st., South Shields.

NORTHUMBERLAND.—Construction of substructure for the proposed Forest Hall county infant sch. for CC. (A) Cawood Wharton & Co. Ltd., Harrogate, £17,057.

NOTTINGHAM. — Reconstruction of premises at Parliament-st. for A. B. Gibson Ltd. (A) W. J. Simms Sons & Cooke Ltd., Sherwood, Nottingham, £151,482.

OLDHAM.—New research and admin. block at Hobson-st. for The Glover & Main Group of Companies. (A) John Dickinson & Co. (Bolton) Ltd., £51,600.

OXFORD.—Following for City C: Construction work on the Donnington Road Bridge scheme. (A) Cementation Group of Companies, £310,000. Completion of changing room accommodation and café, etc., at Hinckley Pools. (A) Symm & Co. Ltd., £28,223.

PULBOROUGH.—Erection of 14 houses for RDC. (A) Y. J. Lovell (Sussex) Ltd., £32,925.

SUNNINGHILL (Berks.).—Erection of new convent building for the Governors of the Marist Convent. Chas. Smith & Son, F/ARIBA, Friar-st., Reading. Henry Cooper & Sons, quantity surveyors. (A) J. M. Jones & Sons Ltd., Highway-wks., Maidenhead, £108,000.

TYNEMOUTH.—Following for TC: Erection of two blocks of 44 dwellings for stage three of the East End redevelopment scheme, North Shields. (A) G. Wimpey & Co. Ltd., Newcastle-on-Tyne, £82,044. Extension to Coast-rd., between Billy Mill and The Broadway. (A) G. Wimpey & Co. Ltd., £176,355.

WESTCLIFF-ON-SEA.—Modernisation of Westcliff-on-Sea Station for British Railways (Eastern Region). H. H. Powell, FRIBA, regional architect. (A) Holland & Hannen and Cubitts (Great Britain) Ltd.

WIGAN.—Erection of 14 bungalows at Bradshaw-st. for TC. (A) Direct labour, £23,171.

WINCANTON.—Erection of 60 dwellings at Lower Balsam Fields for RDC. (A) J. Biddiscombe & Sons, Wanstrow, Somerset, £95,240.

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ATTENTION ADVERTISERS

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

CONTRACTS

NEW WINDSOR
ROYAL BOROUGH.

ERECTION OF TWO MAISONETTES, CLEWER NEW TOWN.

TENDERS are invited for the ERECTION OF TWO MAISONETTES at Clewer New Town.

Plans may be inspected at the Borough Engineer's Office, Kipling Building, Almaroad, Windsor, and Bills of Quantities, Form of Tender and Conditions of Contract obtained on payment of £2 2s. deposit, returnable on receipt of a bona fide Tender and the return of documents.

Tenders in the official envelope provided must reach me not later than NOON, FRIDAY, 11th NOVEMBER, 1960.

The Council does not bind itself to accept the lowest or any Tender.

T. A. TOWNDROW,
Acting Town Clerk.

CHATHAM
BOROUGH.

OLD PEOPLE'S HOME (25 FLATLETS), WAYFIELD-ROAD, CHATHAM.

Tender documents for this building will be available shortly. Contractors who wish to TENDER are invited to submit their names, together with a cheque for 2 guineas, which will be refunded after receipt of a bona fide Tender or return of documents, to Mr. J. A. T. Richards, Borough Engineer and Surveyor, Town Hall, Chatham.

Tenders to be received not later than 12 NOON on 28th OCTOBER, 1960.

The Council does not bind itself to accept the lowest or any Tender.

ROWLAND NEWNES,
Town Clerk.

Town Hall,
Chatham.

KETTERING
BOROUGH.

44 HOUSES—RECTORY FIELD ESTATE.

FIXED PRICE TENDERS are invited for the ERECTION OF 12 THREE-BEDROOM and 32 TWO-BEDROOM HOUSES.

Forms of Tender and Bills of Quantities may be obtained from and plans inspected at the Office of the Borough Engineer and Surveyor, 3 Gold-street, Kettering.

A deposit of £2 2s. is required which will be refunded upon receipt of a bona fide Tender and the return of all documents.

Tenders, enclosed in a plain sealed envelope endorsed "44 Houses, Rectory Field," are to be returned to the undersigned not later than SATURDAY, 22nd OCTOBER, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

D. DUNSFORD PRICE,
Town Clerk.

Town Clerk's Office,
Huxloe Place,
Kettering,
Northants.

BLACKPOOL
COUNTY BOROUGH.

GRANGE PARK ESTATE EXTENSION CONTRACTS 12, 14, 15.

The ERECTION OF 102, OR ALTERNATIVELY 111, ONE-BEDROOM FLATS WITH STORES, AND 59 GARAGES, is to be commenced shortly.

Contractors wishing to TENDER should submit their names to the Borough Surveyor, Municipal Buildings, P.O.17, by 2.30 p.m. on 14th OCTOBER, 1960, giving details of Contracts of similar size and character carried out, labour force, plant and technical supervisory staff available and trades to be sub-contracted.

The contract is to be completed in 75 weeks.

Particulars will be issued to selected Contractors in due course.

BOGNOR REGIS
URBAN DISTRICT COUNCIL.

FIXED-PRICE TENDERS are invited for the ERECTION OF A BLOCK OF 34 FLATS FOR ELDERLY PERSONS, including communal rooms and ancillary works at Corbishley-road, Bognor Regis.

Applications for tender documents (which will be available on or about the 14th OCTOBER, 1960) should be made to the Engineer and Surveyor, Town Hall, Bognor Regis, accompanied by a deposit of £3 3s., which will be returned on receipt of a bona fide tender and the return of all documents. Applications should also include a list of building contracts recently carried out and the names of two architects for whom the contractor has worked.

The Council's Architect is Eric Lyons, Esq., O.B.E., F.R.I.B.A., M.S.I.A.

Tenders in plain sealed envelopes provided and endorsed "Elderly Persons' Dwellings—Corbishley-road," must be delivered to the undersigned not later than first post on FRIDAY, 4th NOVEMBER, 1960.

The Council do not bind themselves to accept the lowest or any tender.

R. W. J. HILL,
Clerk of the Council.

Town Hall,
Bognor Regis.
September, 1960.

BERKSHIRE
ROYAL COUNTY.

TENDERS are invited for the ERECTION OF TWO PAIRS OF STANDARD POLICE HOUSES in traditional brick construction at Turnpike-road Estate, Newbury.

Bills of Quantities and Forms of Tender can be obtained on application to the County Architect, Wilton House, Parkside-road, Reading, enclosing a deposit of £2 2s. which will be returned on receipt of a bona fide tender not subsequently withdrawn.

Tenders must be returned in the envelope provided by noon on TUESDAY, 1st NOVEMBER, 1960.

The Council does not bind itself to accept the lowest or any tender.

SOUTHAMPTON
COUNTY BOROUGH.

Southampton C.B.C. invites TENDERS for the following contracts on bills of quantities available early in October.

Contract B.356—95 TRADITIONAL HOUSES, Thornhill Estate.

Contract B.354—4 TRADITIONAL HOUSES, Gover-road, Millbrook.

Contract B.357—140 FLATS IN TRADITIONAL CONSTRUCTION IN NO. 7 FIVE-STOREY BLOCKS, TYPES A.5 AND B.5, Thornhill Estate.

Application for Tender documents should be received by the Borough Engineer, Civic Centre, Southampton, not later than 10 a.m. on MONDAY, 10th OCTOBER, 1960.

HESTON AND ISLEWORTH
BOROUGH.

RECONSTRUCTION, BRIDGE-ROAD DEPOT, STAGE II.

TENDERS are invited for the ERECTION OF THE SECOND STAGE OF A NEW WORKS DEPOT, comprising LARGE GARAGE AND BUILDING WORKSHOPS.

Firms wishing to tender should make application to Borough Surveyor, 88 Lampton-road, Hounslow, with a deposit of two guineas which will be refunded on receipt of a bona fide tender not subsequently withdrawn.

Tender form and Bills of Quantities will be forwarded on or about 10th OCTOBER, 1960.

Tenders must be received by me in the envelope provided by 10 a.m., on FRIDAY, 4th NOVEMBER, 1960.

The Council are not bound to accept any tender.

D. MATHIESON,
Town Clerk.

Town Hall,
Hounslow,
Middlesex.

EALING
BOROUGH.

TENDERS for CONSTRUCTION OF A NEW SHEET PILE RETAINING WALL AND THE IMPROVEMENT OF THE EXISTING RETAINING WALL WITH MASSED CONCRETE BUTTRESSES, at Occupation-road, South Ealing.

Details obtainable from Borough Engineer, Town Hall, Ealing, W.5, on payment of £5, returnable on receipt of bona fide Tender.

Tenders to Town Clerk, Town Hall, Ealing, W.5, by NOON on 28th OCTOBER, 1960.

E. J. COPE-BROWN,
Town Clerk.

NORTHAMPTONSHIRE
COUNTY COUNCIL.

TENDERS will shortly be invited for the following. Contractors wishing to tender for (a) ERECTION or (b) ELECTRICAL INSTALLATION, are asked to notify the County Architect, County Hall, Northampton, by 17th OCTOBER. From the names received the committee concerned will select firms to whom particulars will be sent.

Corby Beanfield new Infants' School (single storey load bearing brickwork and part steel frame).

Roade Modern School extensions (two storey steel frame).

J. ALAN TURNER,
Clerk of the County Council.

County Hall,
Northampton.

WING
RURAL DISTRICT COUNCIL.

TENDERS are invited for the ERECTION of the following dwellings at Church-lane, Cheddington:

ONE PAIR TYPE "S" HOUSES, together with drainage and site works.

Bills of Quantities and Forms of Tender may be obtained from the Council's Architect, Mr. H. A. Rolls, 15 Bridge-street, Leighton Buzzard, on payment of a deposit of £2 2s., returnable on receipt of a bona fide tender or the return of the documents. Cheques must be made payable to "Wing Rural District Council."

Tenders in plain sealed envelopes, endorsed "Tender for Houses" must be delivered to the undersigned by the first post on TUESDAY, 25th OCTOBER, 1960.

The Council does not bind itself to accept the lowest or any tender.

K. F. YOUNG,
Clerk of the Council.

Brooklands,
Linslade,
Leighton Buzzard.

NEW SARUM CITY.

STRATFORD-ROAD, SALISBURY.

TENDERS are invited for the CONSTRUCTION OF TEN HOUSES AND FOUR FLATS, TOGETHER WITH OUTBUILDINGS, PAVINGS, DRAINAGE AND ALL ANCILLARY WORKS at Stratford-road, Salisbury.

Tenders are to be on a "Fixed Price" Basis and on Bills of Quantities which will be available on SATURDAY, 8th OCTOBER, 1960. Copies of the Bills of Quantities, and Form of Tender can be obtained from the City Engineer, The Council House, Bourne Hill, Salisbury.

Tenders in plain sealed envelopes must be delivered to the undersigned not later than NOON on TUESDAY, 1st NOVEMBER, 1960.

GEO. RICHARDSON,
Town Clerk.

PRESTWICH
BOROUGH HOUSING COMMITTEE.

LUMP SUM FIXED - PRICE TENDERS are invited for the ERECTION OF ONE BLOCK OF 5 OLD PEOPLE'S BUNGALOWS at Turnbull-avenue, Prestwich.

Plans, specification, Form of Tender from Borough Engineer, Town Hall, Prestwich. Deposit 5 guineas. Last date for Tender 25th OCTOBER, 1960.

C. A. CROSS,
Town Clerk.

SURREY
COUNTY COUNCIL.

TENDERS FOR PROPOSED EXTENSION TO WOKING, BROOKWOOD COUNTY PRIMARY SCHOOL.

The work consists of an extension in permanent construction to existing building to provide two additional classrooms with cloakroom, sanitation, etc.

Contractors wishing to Tender should apply to the County Architect, County Hall, Kingston upon Thames, by 13th OCTOBER, 1960.

CROSBY
BOROUGH.

The Council proposes to ERECT 15 BUNGALOWS FOR ELDERLY PERSONS in Little Crosby-road.

Contractors desirous of TENDERING should apply for particulars and forms of Tender to the Borough Engineer and Surveyor at the address below.

Sealed Tenders should be delivered in the envelope provided to the undersigned not later than NOON on WEDNESDAY, 26th OCTOBER, 1960.

The Council does not bind itself to accept the lowest or any Tender.

HAROLD O. ROBERTS,
Town Clerk.

Town Hall,
Waterloo,
Liverpool, 22.

HESTON AND ISLEWORTH
BOROUGH.

RE-PLANNING OF KITCHEN, CRANFORD JUNIOR SCHOOL.

TENDERS are invited for ALTERATION WORKS to existing kitchen at the above school. Firms wishing to tender should make application to the Borough Engineer and Surveyor, 88 Lampton-road, Hounslow.

Tender documents will be forwarded on or about 3rd OCTOBER.

Tenders must be sealed in the envelope provided, and received by me not later than 10 a.m. on 24th OCTOBER, 1960.

D. MATHIESON,
Town Clerk.

Town Hall,
Hounslow,
Middlesex.

SCUNTHORPE
BOROUGH.

TENDERS FOR THE ERECTION OF ONE 14-STOREY BLOCK OF 79 FLATS ON THE WESTCLIFF ESTATE, SCUNTHORPE.

The Council invite Contractors who have previously undertaken similar contracts and who wish to submit a TENDER for this work to forward their names to the undersigned not later than MONDAY, 10th OCTOBER, 1960.

The Council reserve the right to select from the applicants a list of firms who will be invited to submit tenders and does not bind itself to accept the lowest or any tender.

A deposit of five guineas will be required from those firms selected which will be returned on the receipt of a bona fide tender or return of the Bill of Quantities.

T. M. LISTER,
Town Clerk.

Municipal Offices,
34 High-street,
Scunthorpe.
26th September, 1960.

KINGSTON-UPON-THAMES
ROYAL BOROUGH.

CONCRETE PATHS.

TENDERS are invited for the RENEWAL OF EXISTING TARMAC-ADAM FRONT ENTRANCE PATHS IN CONCRETE at approximately 45 houses on the Nonsuch Estate.

Tender documents obtainable from Borough Surveyor, Guildhall, Kingston-upon-Thames, on deposit of £2 2s., returnable on receipt of bona fide tender and all documents.

Tenders to be returned to me in the envelope provided by first post on MONDAY, 24th OCTOBER.

The Corporation do not bind themselves to accept the lowest or any tender.

L. V. POWELL,
Town Clerk.

Guildhall,
Kingston-upon-Thames.
26th September, 1960.

WEST SUSSEX
COUNTY COUNCIL.

Contractors wishing to submit a FIXED-PRICE TENDER for the undermentioned project, are invited to apply for permission to tender; such applications to be addressed to the County Architect, County Hall, Chichester, to reach him not later than 14th OCTOBER, 1960.

ALTERATIONS AND EXTENSIONS TO STORRINGTON RYDON SECONDARY MODERN SCHOOL (Job No. 6310).

Quantities will be issued on or about 31st OCTOBER, 1960.

The County Council does not bind itself to accept the lowest or any tender, and the firm whose tender is accepted must be prepared to enter into a contract in a form to be prepared by me.

T. C. HAYWARD,
Clerk of the County Council.

County Hall,
Chichester.
28th September, 1960.

ST. ALBANS CITY.

HOUSING: JERSEY FARM ESTATE.

TENDERS are invited for the ERECTION OF 48 HOUSES AND 76 GARAGES on the Jersey Farm Estate, St. Albans.

Bills of Quantities and Form of Tender can be obtained from and drawings inspected at the office of the City Engineer and Surveyor, 16 St. Peter's-street, St. Albans on payment of a £3 3s. 0d. deposit which sum will be returned on receipt of a bona fide Tender not subsequently withdrawn.

Form of Tender, in the endorsed envelope provided, to be delivered to reach the undersigned not later than MONDAY, 14th NOVEMBER, 1960.

B. V. ENTWISTLE,
Town Clerk.

38 St. Peter's-street,
St. Albans.

ORPINGTON
URBAN DISTRICT COUNCIL.

COUNTY OFFICES, THE WALNUTS, HIGH-STREET, ORPINGTON.

The Council invites FIRM PRICE TENDERS for the ERECTION OF SINGLE-STOREY TIMBER DEMOUNTABLE OFFICE BUILDING of approximately 3,500 sq. ft.

Specification, Drawings and Form of Tender may be obtained on application to me on payment of a deposit of £2 which will be returned on receipt of a bona fide Tender, together with all documents supplied, and not subsequently withdrawn.

All applications to tender must be received not later than THURSDAY, 13th OCTOBER, 1960. No applications will be accepted after that date. The documents for tendering will be sent out on or about FRIDAY, 14th OCTOBER, 1960.

Conditions of Contract may be inspected at my office by all persons having made the necessary application to tender.

Tenders, on the prescribed form in the envelope provided, must be delivered to th office of the Clerk of the Council, Council Offices, Crofton-road, Orpington, Kent, not later than 12 NOON on the 10th NOVEMBER, 1960.

The Council does not bind itself to accept the lowest or any Tender.

L. W. FREEMAN,
Engineer and Surveyor.

Civic Offices,
The Walnuts,
High-street,
Orpington,
Kent.

EAST SUSSEX
COUNTY COUNCIL.

BODIAM C.E. SCHOOL.

TENDERS are to be invited for the ERECTION OF A NEW THREE-CLASSROOM SCHOOL.

Contractors wishing to tender should apply before 21st OCTOBER, 1960, to the County Architect, County Hall, Lewes, Sussex.

Selected Contractors will be provided with Bills of Quantities on 17th NOVEMBER, 1960.

GLOUCESTERSHIRE
COUNTY COUNCIL.

GLOUCESTERSHIRE TRAINING COLLEGE OF DOMESTIC SCIENCE.
PROPOSED HOSTEL ACCOMMODATION AND EXTENSIONS TO COLLEGE.

The County Council are prepared to receive names of General Contractors who wish to be considered for the above work, comprising THREE HOSTEL BLOCKS, estimated to cost approximately £205,000, and extensions to the teaching accommodation, estimated to cost £155,000.

The whole of the works are to be completed by the 31st JULY, 1962, and only Contractors with the necessary organisation able to carry out this work within the time specified should apply.

Tenders for the hostel blocks are based on Bills of Quantities which will be available by the 17th OCTOBER, and in connection with the college extensions the successful contractor will be invited to submit a tender within three months of the acceptance of the tender for the hostel blocks. In each instance the lowest or any tender will not necessarily be accepted.

The Council's appointed Architects for these works are Messrs. Farmer & Dark, Chartered Architects, Romney House, Tufton-street, London, S.W.1, and the Quantity Surveyors, Messrs. E. C. Harris & Partners, Lynton House, 7-12 Tavistock-square, London, W.C.1.

Names and addresses of contractors wishing to be considered, together with other relevant information, should be forwarded to R. F. Fairhurst, A.R.I.B.A., County Architect, Shire Hall, Gloucester, not later than WEDNESDAY, 12th OCTOBER, 1960.

GUY H. DAVIS,
Clerk of the County Council.

FOLKESTONE
BOROUGH.

ERECTION OF ONE MAISONETTE, ONE FLAT AND GARAGE IN FOUR STOREYS BETWEEN NOS. 3-7 RADNOR BRIDGE-ROAD.

Contractors wishing to TENDER for the above are invited to submit their names, together with a deposit of £2 2s., to Mr. E. L. Allman, Borough Engineer, West-terrace, Folkestone, not later than the 17th OCTOBER, 1960.

N. C. SCRAGG,
Town Clerk.

Town Clerk's Office,
West-terrace,
Folkestone.
28th September, 1960.

EAST SUSSEX
COUNTY COUNCIL.

LEWES, HILL-ROAD.

TENDERS are to be invited for the ERECTION OF A PAIR OF SEMI-DETACHED HOUSES WITH GARAGES at the above.

Contractors wishing to tender should apply before 21st OCTOBER, 1960, to the County Architect, County Hall, Lewes, Sussex.

Selected Contractors will be provided with Bills of Quantities on 12th NOVEMBER, 1960.

NORTHAMPTON
COUNTY BOROUGH.

Contractors wishing to TENDER for ERECTION OF DALLINGTON PARK PAVILION - CHANGING ACCOMMODATION, Northampton, should apply to the Borough Architect, Guildhall, Northampton, enclosing crossed cheque (payable to "Northampton Corporation") for £2 2s. This sum will be returned if a bona fide tender is received by 8th NOVEMBER.

C. E. VIVIAN ROWE,
Town Clerk.

BEDFORDSHIRE
COUNTY COUNCIL.

Building Contractors wishing to be considered to TENDER on the basis of a fixed price Building Contract for the ERECTION OF A TWO-STOREY EXTENSION IN TRADITIONAL CONSTRUCTION TO PROVIDE A FILING ROOM AND IMPROVED CANTEEN FACILITIES at the Police Headquarters, The Pines, Goldington-road, Bedford (approximate cost £4,000) should submit their names to the County Architect, Shire Hall, Bedford, by MONDAY, 17th OCTOBER, 1960.

Bills of Quantities will be issued to the Contractors selected to Tender.

The Council does not bind itself to accept the lowest or any Tender.

SURREY
COUNTY COUNCIL.

TENDERS FOR EXTENSIONS AND ADAPTATIONS AT CHOBHAM COUNTY INFANTS SCHOOL.

The work consists of EXTENSION TO PROVIDE THREE-CLASSROOM BLOCK, BOILER HOUSE EXTENSION AND ADAPTATIONS IN EXISTING BUILDING.

Contractors wishing to Tender should apply to the County Architect, County Hall, Kingston upon Thames, by 13th October, 1960.

FOLKESTONE
BOROUGH.

ERECTION OF BLOCK OF THREE FLATS IN THREE STOREYS, TOGETHER WITH STORES AND GARAGES, ATTACHED TO ROSSENDALE-COURT, DOVER-ROAD.

Contractors wishing to TENDER for the above are invited to submit their names, together with a deposit of £2 2s., to Mr. E. L. Allman, Borough Engineer, West-terrace, Folkestone, not later than the 17th OCTOBER, 1960.

N. C. SCRAGG,
Town Clerk.

Town Clerk's Office,
West-terrace,
Folkestone.
28th September, 1960.

BRISTOL
CITY AND COUNTY.

TO BUILDING CONTRACTORS.

Planning and Public Works Committee invite TENDERS for ERECTION OF CHANGING ACCOMMODATION, PUBLIC CONVENIENCE AND PARK SHELTER, at Kingshead-lane Recreation Ground, Bishopsworth, Bristol.

Contractors willing to submit Fixed Price Tenders apply to City Architect, Council House, Bristol, 1, by 14th OCTOBER. Bills of Quantities issued shortly afterwards.

WAKEFIELD CITY.

THREE BLOCKS OF THREE-STOREY FLATS
at Peacock-avenue.

TENDERS are invited for the ERECTION OF 27 FLATS IN THREE BLOCKS OF NINE at the junction of Peacock-avenue with Batley-road.

Applications for Bills of Quantities must be made to the City Engineer not later than the 17th OCTOBER, 1960.

W. S. DES FORGES,
Town Clerk.

3rd October, 1960.

WIDNES
BOROUGH.

EDUCATION COMMITTEE.

FIXED-PRICE TENDERS are invited for the ERECTION OF THE NEW WADE DEACON GRAMMAR SCHOOL FOR GIRLS, from contractors who are able to complete the major portion of the contract for occupation by 1st SEPTEMBER, 1961, which will be a condition of contract.

The buildings comprise single-storey steel-framed Assembly Hall, Gymnasium and Kitchen, and a three-storey-reinforced-concrete-framed block of classrooms and special practical rooms, with administrative and ancillary accommodation. The total floor area is approximately 31,000 sq. ft.

Conditions of contract and drawings may be inspected and Bills of Quantities obtained from the Borough Architect, Brendan House, Widnes-road, Widnes, on receipt of a returnable deposit of £2 2s.

Tenders to be received not later than 10 a.m., on MONDAY, 7th NOVEMBER, 1960. The Council do not bind themselves to accept the lowest or any tender.

FRANK HOWARTH,
Town Clerk.

Town Hall,
Widnes.
October, 1960.

ILFORD
BOROUGH.

ILFORD BROADWAY REDEVELOPMENT.
PROPOSED SHOPS AND OFFICE BLOCK.
STRUCTURAL WORKS.

The Corporation invite TENDERS for the STRUCTURAL FOUNDATIONS AND FRAMEWORK involved in the CONSTRUCTION OF A FOUR-STOREY BLOCK OF SHOPS AND OFFICES together with a TWO-LEVEL CAR PARK, ACCESS ROAD AND DRAINAGE SYSTEM. The work consists of reinforced concrete foundations and retaining walls, partly cased structural steelwork frame (steelwork to be carried out by a nominated Sub-Contractor), reinforced concrete floors and staircases, mass concrete ramp and all incidental works.

The Conditions of Contract and Drawings may be inspected and the Special Conditions, Specification, Bill of Quantities, general layout drawings and Form of Tender obtained on application in writing to the Borough Engineer and Surveyor, Town Hall, Ilford.

Applications must be accompanied by a deposit of Five Guineas, which is returnable upon receipt of a bona fide Tender, not subsequently withdrawn.

Sealed Tenders, in an envelope which will be provided, bearing no indication of the Tenderer and endorsed—"Tender for Ilford Broadway Redevelopment—Proposed Shops and Office Block—Structural Works," must be delivered to the Town Clerk, Town Hall, Ilford, not later than 4 p.m. on TUESDAY, 25th OCTOBER, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

BIRMINGHAM CITY.

PARKS COMMITTEE.
KENTS MOAT RECREATION GROUND, BIRMINGHAM, 33.

TENDERS are invited for the following separate contract works:

(1) CONSTRUCTION OF A BRICK AND TIMBER SPORTS PAVILION.

(2) SITE LEVELLING; SURFACE AND FOUL WATER DRAINAGE; CONCRETE PATHS; TENNIS COURTS AND NETBALL PITCHES; CAR PARK; CHILDREN'S PLAY-GROUND; GROUND PREPARATION; GRASS SEEDING; SUPPLY AND PLANTING OF TREES, SHRUBS, HERBACEOUS PLANTS AND BULBS.

The Form of Tender and a copy of the Bill of Quantities and drawings may be obtained upon application to the General Manager, Parks Department, Civic Centre, Broad-street, Birmingham 1, on payment of a deposit of £2 2s. in respect of each separate contract, which will be returned upon receipt of a bona fide tender. Applications must be received not later than WEDNESDAY, 12th OCTOBER, 1960.

A copy of the Corporation's General Conditions (which include the Corporation's usual fair wages and Conditions of Labour Clauses) may be inspected at the Parks Department, Room 435, Civic Centre, during usual office hours.

Tenders for any one, or both, of the contracts enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office, Room B33, Council House, Birmingham, 1, not later than 12 noon on MONDAY, 14th NOVEMBER, 1960, when they will be opened. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any tender received.

T. H. PARKINSON,
Town Clerk.

Council House,
Birmingham, 1.
27th September, 1960.

ESSEX
COUNTY COUNCIL.

FIREMEN'S HOUSES,
CHELMSFORD.

Contractors wishing to submit a FIRM PRICE TENDER FOR THE ERECTION of the above should forward their names, from which a panel will be chosen and provided with tender documents.

The work consists of the erection of eleven houses in traditional construction, estimated cost £29,000.

Applications to reach the undersigned not later than 15th OCTOBER, 1960.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

WIDNES
BOROUGH.

FIXED-PRICE TENDERS are invited for the WORK OF STRENGTHENING THE EXISTING TIMBER FLOORS at Warrington-road and Simms Cross County Primary Schools by the insertion of steel channels alongside the existing beams.

Specifications and forms of tender obtainable from the Borough Architect, Brendan House, Widnes-road, Widnes. Tenders in special envelope provided must be delivered to the undersigned not later than 10 a.m. on MONDAY, 24th OCTOBER, 1960. The Council do not bind themselves to accept the lowest or any tender.

FRANK HOWARTH,
Town Clerk.

Town Hall,
Widnes.
4th October, 1960.

BRISTOL
CITY AND COUNTY.

EDUCATION COMMITTEE.
TO
(A) HEATING AND VENTILATING ENGINEERS;
(B) ELECTRICAL ENGINEERS.

Education Committee invite FIXED-PRICE TENDERS for:

(A) INSTALLATION OF ENGINEERING SERVICES including modifications to existing oil-fired heating and domestic hot water supply, together with cold water, gas supply and ventilation in new BIOLOGICAL SCIENCE BLOCK, College of Advanced Technology, Ashley Down, Bristol.

(B) ELECTRICAL INSTALLATION at the above, from Contractors on Roll of the National Inspection Council for Electrical Installation Contracting.

Contractors experienced in work of this nature and size apply to City Architect, Council House, Bristol, 1, by 12th OCTOBER. Successful tenderers will become nominated Sub-Contractors and must enter into a Contract with the Main Contractor on terms consistent with Main Contract of approximately 52 weeks' duration.

PUBLIC APPOINTMENTS

CHESTERFIELD
RURAL DISTRICT COUNCIL.

APPOINTMENT OF CHIEF ASSISTANT PLANNING OFFICER.
J.N.C. Scale "B."

Applications are invited for the appointment in the department of the Engineer and Surveyor and Planning Officer (Mr. J. B. Wikeley, M.Eng., M.I.C.E.) at a salary in accordance with Grade B (£1,375-£1,485).

The population of the district is nearly 100,000 and the Council exercise functions under the Town and Country Planning (Delegation) Regulations, 1959. The person appointed will be responsible for development control and for the preparation of schemes for town and village re-development and for industrial estates.

Housing accommodation will be provided in appropriate cases. Removal expenses will be paid. Essential User car allowance on Scale 1.

Applicants must be members of the Town Planning Institute and have other suitable professional qualifications, preferably in Architecture.

Applications, with the names of two referees, to reach the undersigned by 19th OCTOBER, 1960.

H. O. HAWKINS,
Clerk of the Council.

Rural Council House,
Saltergate,
Chesterfield.

SOUTHALL
BOROUGH.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment on the Permanent Staff of the Corporation. Salary in accordance with A.P.T. Grade II (£815-£960) plus London Weighting.

Candidates should have passed the Intermediate Examination of the Royal Institute of British Architects or an equivalent and have had practical experience of design and construction.

Favourable consideration will be given to the provision of Housing Accommodation, if required, on a Private Estate.

Applications, on forms to be obtained from the Borough Engineer and Surveyor, Town Hall, Southall, Middlesex, must be returned to him on or before WEDNESDAY, 26th OCTOBER, 1960.

J. S. SYRETT,
Town Clerk.

LANCASHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited from qualified ARCHITECTS of initiative, keen on design and modern constructional methods, to work on a large and varied programme.

Permanent staff appointments within the salary range £1,310-£1,480 (A.P.T.V.) starting point according to experience.

Application forms and details of appointment from the County Architect, P.O. Box 26, County Hall, Preston, returnable by 21st OCTOBER, 1960, quoting reference A/B.

LONDON
ELECTRICITY BOARD.

ASSISTANT QUANTITY SURVEYOR.

Applications are invited for the above position in the Construction Branch of the Chief Engineer's Department in Central London.

Applicants should have had working-up experience in a Quantity Surveyor's office and will work under the direction of a Chartered Quantity Surveyor.

The post is graded under Schedule "B" of the National Joint Board Agreement as Grade II, Class BX—salary £905 to £1,215 per annum, inclusive of London Allowance.

Application form obtainable from the Personnel Officer, 46 New Broad-street, E.C.2, to be returned completed within 14 days of the publication date of this advertisement. Please quote ref.: PER/V/3107/B.

An absolute guarantee

Marley are the largest roof tile manufacturers and fixers in the world, offering the widest choice of colours in plain, single-lap, and interlocking types. All Marley tiles are covered by the dual guarantee that (1) they will not laminate or decay for 50 years, and (2) when fixed by Marley Craftsmen they will be maintained free for 10 years.

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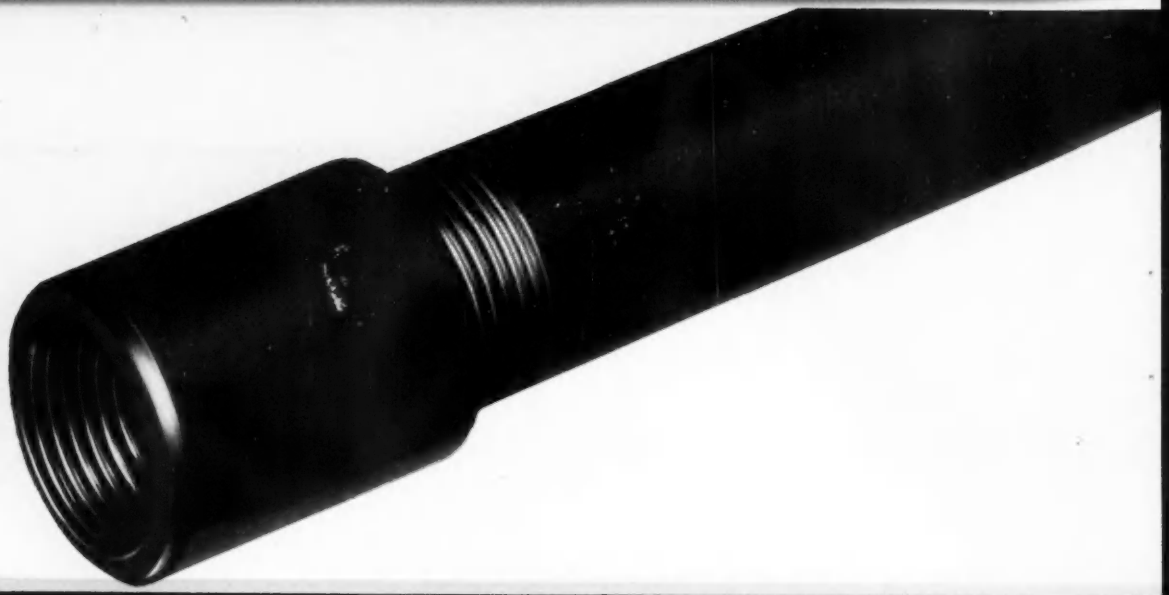
Sevenoaks 55255

London Showrooms
251 Tottenham Court Rd., W.1

Charlie Francis, a Marley tiler for more than 25 years, fixing Marley Plain tiles.



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there is nothing

stronger or cheaper

than

steel tubes

PRODUCT OF S&L

STEWARTS AND LLOYDS LIMITED · GLASGOW · BIRMINGHAM · LONDON

Introducing the

Ascot De Luxe G512

the new water heater giving complete control

The New Ascot De Luxe type G512 represents the latest developments in water heater design and performance. Developed by Ascot for use as an instantaneous multipoint and single-point water heater, this Ascot De Luxe with its *complete* controls for gas and water is sure to be popular with the modern housewife. Here are some of its features:

Temperature Selector
A temperature selector controlling a temperature rise between 45°-100°F is incorporated, allowing the housewife to choose water at whatever heat she wants.

Gas and Water Controls
The Ascot De Luxe is fitted with a constant volume gas governor and a water governor. External controls include hot and cold taps and a rotary gas control. Gas and water cocks are an integral part of the heater linings.

Ease of Fixing and Maintenance
The De Luxe ensures easy fixing and maintenance. The outer case and top and bottom pans are quickly detachable, and all working parts are readily accessible. The stainless steel Ascot 'flat flame' burner needs little attention.

Versatility
The De Luxe is designed to operate as either a single point heater with a 9" spout, or as a small multipoint heater.

Performance
The De Luxe is 23¼" high, 10¼" wide and 8 5/16" deep and gives 30,000 B.t.u./hr. thermal output from an input of 40,000 B.t.u./hr. producing 0.5 g.p.m. raised 100°F, 0.625 g.p.m. raised 80°F, and pro rata. Pilot consumption is 250 B.t.u./hr.

For full details of the Ascot De Luxe type G512 write to
ASCOT GAS WATER HEATERS LIMITED, 255 NORTH CIRCULAR ROAD, NEASDEN, N.W.10

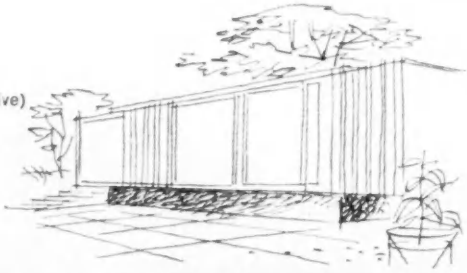
REGD. TRADE MARK
ASCOT

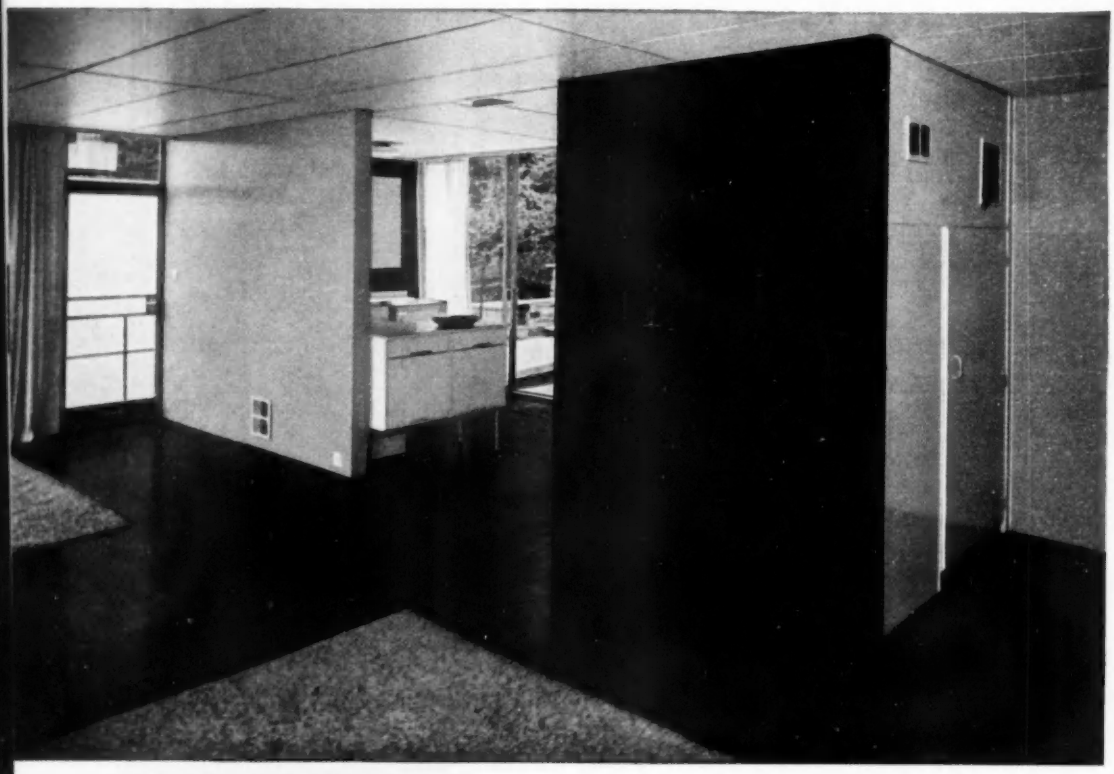
A Radiation Company

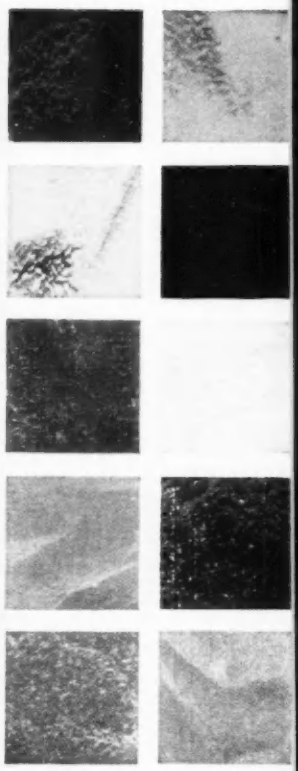
HOUSE AT BRANCH LANE, ALMONDBURY, YORKS,

featuring Nairn Vinyl tiles. Photo: Mann Bros. (Courtesy Peter Stead of Design Collaborative)

'. . . the first of a series of projects in which the designers are attempting to create living environments using colour-space considerations. The spaces, inside and outside, are determined by planes of colour . . . These coloured planes interact, giving continuous visual rhythms . . . creating a system of chromoplastic relationships and spaces that is clear-cut, yet tranquil.'
ARCHITECTURAL DESIGN, July 1959).







A complete range of 19 attractive colours for commercial and domestic use

NAIRN Vinyl tiles

give you 19 planned colours to simplify colour-matched design

Using Nairn Vinyl tiles, you can choose from *planned* colours. Virtually all correspond closely with B.S.2660, making it easy to design a floor that will fit in with the overall colour plan of your project. A marbled finish helps to maintain their appearance in heavy traffic areas. To satisfy a particularly big demand, plain black and plain white are available for use in the 2.0 mm range.

The colour range shown here is based on the experience of our French factory, whose range has proved most popular with Continental designers. All 19 colours are available in the 2.0 mm domestic tiles (9" x 9"). In the heavy-duty 3.2 mm tiles (9" x 9" and 12" x 12"), there are 5 colours in the Contractors' Basic 'A' Range and a further 6 in the Architectural Design 'B' Range. Within each range, every tile is the same price: you can quickly and accurately cost up any installation.

NAIRN TECHNICAL ADVISORY SERVICE

Technical representatives are based at our area offices to advise and give information on all matters concerning floorcovering materials. If you wish to consult one of these representatives, just write or 'phone any of these offices:

MICHAEL NAIRN & CO. LTD., P.O. BOX 1
Kirkcaldy, Scotland. Kirkcaldy 2011 (10 lines)

LONDON EC1: *131 Aldersgate Street. Monarch 3211 (8 lines).*

BIRMINGHAM 2: *65 Temple Row. Midland 5989 (2 lines).*

BRISTOL 4: *349 Bath Road. Bristol 77840.*

MANCHESTER 1: *4 Canal Street. Minshull Street. Central 1417 (3 lines).*

GLASGOW C5: *113 Centre Street. South 1011 (3 lines).*

NEWCASTLE-ON-TYNE: *41 Grainger Street. Newcastle 22807.*

ILFORD
BOROUGH.

BOROUGH ENGINEER'S DEPARTMENT.
APPOINTMENT OF ASSISTANT ARCHITECT, Grade A.P.T. IV.

Candidates should preferably have passed the Final Examination of the R.I.B.A. or equivalent, but holders of the Intermediate Examination will be considered.

The commencing salary will be fixed within the scale (£1,065-£1,220 per annum) according to qualifications and experience. London Weighting payable in addition. A five-day working week is in operation.

The candidate appointed will be required for work in connection with design and working drawings for new Baths and Public Library at Fulwell Cross.

The appointment will be subject to one month's notice on either side, to the provisions of the Local Government Superannuation Acts, to the National Conditions of Service and to satisfactory medical examination.

The Council is prepared to consider, if necessary, the provision of housing accommodation.

Application forms obtainable from the Borough Engineer, Town Hall, Ilford, should be returned not later than 17th OCTOBER.

CASTLEFORD
BOROUGH.

APPOINTMENTS IN THE BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following appointments:—

SENIOR ASSISTANT ENGINEER. Salary—Special Grade: commencing salary according to qualifications and experience but not less than £960 per annum, rising to £1,145 per annum. Applicants must be Corporate Members of the Institution of Municipal and/or Civil Engineers, and have had experience in a Municipal Engineer's Office.

SENIOR ASSISTANT ARCHITECT. Salary—Special Grade: commencing salary according to qualifications and experience but not less than £960 per annum, rising to £1,145 per annum. Applicants must be Associate Members of the R.I.B.A. and/or Registered Architects, and have had some years' practical experience.

ARCHITECTURAL ASSISTANT. Salary—Grade A.P.T. II (£815-£960). Applicants should have passed the Intermediate Examination of the R.I.B.A. or its equivalent at one of the recognised Schools of Architecture.

N.J.C. Service conditions; superannuable; terminable by one month's notice on either side. The successful applicants will be required to pass satisfactorily a medical examination.

If required, housing accommodation will be provided for successful married applicants.

Applications, on forms obtainable from me, to be returned by the 29th OCTOBER, 1960.

Canvassing disqualifies.

ERNEST HUTCHINSON,
Town Clerk.

Town Hall,
Castleford.

AIR MINISTRY.

QUANTITY SURVEYING ASSISTANTS, Grade III, required in the PROVINCES. Duties include abstracting and billing, site measurement and preparation of estimates. Candidates must hold O.N.C. (Building or Builders' Quantities) or equivalent and have good experience under Quantity Surveyor or Building Contractor. Knowledge W.D. Schedule an advantage. Financial assistance and time off given for recognised courses of study. Promotion and pension prospects. 5-day week with 18 days' paid leave a year initially. Overseas tours for which special allowances granted.

Salary ranges from £770 (at age 26) to £925. Commencing salary dependent upon age, qualification and experience. Applicants, who must be natural born British subjects, should write, stating age, qualifications and previous appointments, including type of work done, to Manager (PE.2), Ministry of Labour, Professional and Executive Register, Atlantic House, Farringdon-street, London, E.C.4. No original testimonials should be sent. Candidates selected will normally be interviewed in London and certain expenses reimbursed. Only applicants selected for interview will be advised.

BEBINGTON
BOROUGH.

QUANTITY SURVEYOR, Grade I A.P.T./Special Classes.

Applications are invited for the above post, commencing salary of which will be fixed according to qualifications and experience.

A five-day week is in operation.

Application forms are available from the Borough Engineer and Surveyor, Town Hall, Bebington, Cheshire, and should be returned to the Town Clerk so as to be received by him, at the same address, not later than FIRST POST on MONDAY, the 17th OCTOBER, 1960.

The candidate appointed, if married and considered by the Council to be in need of housing at the time of appointment, will be found accommodation within a reasonable period of time.

Canvassing will be a disqualification.

G. CHAPPELL,
Town Clerk.

Town Hall,
Bebington.

CHELMSFORD
CORPORATION.

The following staff are required in a progressive and rapidly growing County Town. Planning proposals include central area redevelopment.

(a) TOWN PLANNING OFFICER, J.N.C. lettered Grade A (present max. £1,420).

(b) TOWN PLANNING ASSISTANT, A.P.T. IV (£1,140-£1,310).

Half approved removal expenses; housing offered to married applicants and car allowance.

For further particulars write to Borough Engineer and Surveyor, Municipal Offices, Coval-lane, Chelmsford. Closing date for applications, MONDAY, 24th OCTOBER, 1960.

B. A. FRANCIS,
Town Clerk.

LONDON MASTER BUILDERS ASSOCIATION

NATIONAL CONTRACTORS GROUP.

Applications are invited for appointment of SECRETARY OF THE NATIONAL CONTRACTORS GROUP of the above Association (which is the London Region of the National Federation of Building Trades Employers). He will be responsible, subject to the general authority of the Director, for work in connection with the Committees of the Group and for conducting its affairs. He may also be allocated certain other duties in the Association.

It is desirable that the Secretary should have experience of a similar Organisation and have some technical background, but this is not essential.

The successful applicant, who should be between 30 and 45 years of age, will be expected to take up his duties as soon as possible. Commencing salary will be not less than £1,500 per annum depending on qualifications and experience. Superannuation provisions apply.

Persons interested should write by 14th OCTOBER for full details of duties and Application Form which is returnable not later than 28th OCTOBER, to the Director at 47 Bedford-square, London, W.C.1, the envelope being marked "N.C.G." in the top left-hand corner.

CORBY
DEVELOPMENT CORPORATION.

ARCHITECTURAL ASSISTANTS.

There are vacancies on the staff of the Chief Architect for ARCHITECTURAL ASSISTANTS. Appointments will be made within A.P.T. Grades I (£610-£765) or II (£765-£880). The Grade and the commencing point within the Grade will depend upon qualifications and experience.

Candidates will be expected to have passed the Intermediate examination of the R.I.B.A. or an equivalent examination recognised by the Architects Registration Council.

Appointments are subject to superannuation under the Local Government Superannuation Scheme.

Housing is available. Removal expenses paid.

Applications, stating age, education, training, qualifications, experience, appointments held and salaries, together with the names of two referees, to R. F. Brooks Grundy, General Manager, Corby Development Corporation, Spencer House, Corby, Northants.

CANTERBURY CITY.

SENIOR ASSISTANT ARCHITECT, £840-£1,310.

Applications are invited for the ABOVE APPOINTMENT in the City Architect and Planning Officer's Department.

Commencing salary within Special Scale to A.P.T. IV according to ability and experience. The successful candidate will be engaged initially on the new Technical College project and must have attained the necessary standard of professional qualification.

Housing accommodation available if required.

Applications, with the names of two referees, to the City Architect and Planning Officer, John L. Berbiers, F.R.I.B.A., A.M.T.P.I., by SATURDAY, 22nd OCTOBER, 1960.

Canvassing will disqualify.

J. BOYLE,
Town Clerk.

Municipal Buildings,
Canterbury.

CORBY
DEVELOPMENT CORPORATION.

ASSISTANT ARCHITECTS.

There are vacancies on the staff of the Chief Architect for ASSISTANT ARCHITECTS. The appointments will be made within A.P.T. Grade III (£880-£1,065) or IV (£1,065-£1,220). The Grade and the commencing salary within the Grade will depend upon qualifications and experience.

Candidates must be qualified A.R.I.B.A. or must have passed the final examination of the R.I.B.A. or an equivalent examination recognised by the Architects Registration Council.

Appointments are subject to superannuation under the Local Government Superannuation Scheme.

Housing is available. Removal expenses paid.

Applications, stating age, education, training, qualifications, experience, appointments held and salaries, together with the names of two referees, to R. F. Brooks Grundy, General Manager, Corby Development Corporation, Spencer House, Corby, Northants.

COUNTY BOROUGH OF CROYDON
ARCHITECTURAL STAFF

Applications are invited for these appointments on the Corporation's Housing and General Architectural work which includes a considerable variety of large interesting projects.

(*a*) **ASSISTANT ARCHITECTS** (Team Leaders), R.I.B.A. Final required, APT V (£1,355 to £1,525 including "London Weighting");

(*b*) **ARCHITECTURAL ASSISTANTS**, APT I/II/III/IV (£660 to £1,355 including "London Weighting").

"Essential user" car allowance payable for appointments (*a*); similar allowance for appointments (*b*) when graded in APT IV with R.I.B.A. Final.

Pensionable posts; commencing salaries according to qualifications and experience. Five-day week (38 hours).

HOUSING—advances up to 100% of Borough Valuer's valuation will be made available where needed for the purchase of suitable houses in Croydon by successful applicants.

Further particulars and application forms from the :—

Borough Engineer, Town Hall, Croydon.
Closing date 24th October, 1960.

E. TABERNER, *Town Clerk.*

WALTHAMSTOW
BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the undermentioned vacancies on the staff of the Borough Architect:—

(a) CLERK OF WORKS, A.P.T. II (£815-£960).

(b) ASSISTANT ESTIMATING SURVEYOR, A.P.T. I (£645-£815).

The above salaries do not include the London Weighting allowances and the commencing salary will be according to experience.

Applicants for post (a) should have a thorough knowledge of the building trade and be capable of supervising large housing contracts. Applicants for post (b) which is in the Building Works Section of the Department, should have a knowledge of all trades and some experience in measurement and calculation for bonus incentive schemes.

The Council will make 100 per cent. advances to successful applicants for house purchase within the Borough or in adjoining Boroughs.

Application forms, obtainable from the Borough Architect, Town Hall, Walthamstow, London, E.17, must be returned to the undersigned by NOON on FRIDAY, 21st OCTOBER, 1960.

G. A. BLAKELEY,
Town Clerk.

Town Hall,
Walthamstow, E.17.
26th September, 1960.

WORCESTER CITY.

APPOINTMENT OF QUANTITY SURVEYOR'S ASSISTANT.

Applications are invited for this APPOINTMENT within A.P.T. Grade I (£645-£815). Applicants must have a good knowledge of quantity surveying duties and be experienced in working up, site measurement and checking labour and material cost variations.

The appointment will be subject to a medical examination.

Housing accommodation will be available if required.

Applications stating age and experience, together with the names of two referees, should be sent to the City Engineer and Surveyor, 22 Bridge-street, Worcester, by 14th OCTOBER.

BERTRAM WEBSTER,
Town Clerk.

Guildhall,
Worcester.

DURHAM
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.
ARCHITECTURAL STAFF. Grade A.P.T. IV, £1,065 to £1,220 p.a. Must be A.R.I.B.A. Particulars from County Architect, South-street, Durham, to whom completed application forms returnable by 19th OCTOBER, 1960. Personally canvassing the members of the Council is prohibited, and the Council may declare any candidate infringing this rule to be disqualified for election.

Clerk of the County Council.
J. K. HOPE.

AIR MINISTRY

require SENIOR TAKERS-OFF in the Quantities Division, London. Must have wide experience of all classes of work and preferably be A.R.I.C.S. (Sub-Division III Quantities). Salary scale £1,375 to £1,785. Commencing salary A.Q.E. Non-pensionable but long term. Good prospects of establishment and/or promotion. Five-day week. 22 days' paid leave. Applicants, must be natural born British subjects. Forms from Ministry of Labour, Technical and Scientific Register (K), 26 King-street, London, SW1. Quoting J.340/OA.

BARNSLEY
COUNTY BOROUGH.

BOROUGH ENGINEER AND SURVEYOR AND PLANNING OFFICER'S DEPARTMENT.

Applications are invited for the following appointments:

(a) BUILDING INSPECTOR, A.P.T. III (£960-£1,140).

(b) ARCHITECTURAL ASSISTANT (SPECIAL CLASSES), A.P.T. I (£645-£815), or Special Grade (£840-£1,145).

(c) ASSISTANT ARCHITECT, A.P.T. II (£815-£960).

(d) ENGINEERING ASSISTANTS (SPECIAL CLASSES), A.P.T. I (£645-£815), or Special Grade (£840-£1,145).

COMMENCING SALARIES MAY BE FIXED ABOVE THE MINIMUM OF THE GRADES ACCORDING TO EXPERIENCE AND QUALIFICATIONS.

For appointment (a) applicants must be suitably qualified and have had considerable experience with a local authority in a similar capacity and should be fully conversant with building by-laws and other relevant statutory powers. For (b) and (c) candidates should have had previous experience in the design of housing and public buildings, although municipal experience is not essential. For post (d) candidates should have had previous municipal engineering experience.

Candidates for appointments (b) and (d) requiring Special Grade should be suitably qualified.

The posts are superannuable and subject to passing of medical examination, N.J.C. conditions of service and one month's notice on either side.

HOUSING ACCOMMODATION CAN BE PROVIDED IF NECESSARY AND 50 PER CENT OF REMOVAL TRANSPORT EXPENSES WILL BE PAID IN APPROVED CASES.

Applications, stating age, present and previous appointments, qualifications, experience, etc., together with the names of two persons for reference, should reach the Borough Engineer, Town Hall, Barnsley, by FRIDAY, the 21st OCTOBER, 1960.

Canvassing will disqualify.

A. E. GILFILLAN,
Town Clerk.

Town Hall,
Barnsley.
September, 1960.

BLETCHLEY
URBAN DISTRICT COUNCIL.

APPOINTMENT OF CLERK OF WORKS.

Applications are invited from experienced persons for the position of CLERK OF WORKS in connection with the further expansion of the town under the Town Development Act, 1952, which is likely to include the erection of Houses, Flats, Bungalows, Shops, Factories, etc., etc.

Salary will be in accordance with the National Joint Council Scale of Salaries, A.P.T. Division Grade II (£765-£880). The appointment will be in accordance with the National Scheme of conditions of service, one month's notice on either side and to the passing of a medical examination.

Housing accommodation will be made available if required.

Applications, stating age and full details of experience, together with the names and addresses of two persons to whom reference may be made, should be delivered to the undersigned by FIRST POST on MONDAY, 17th OCTOBER, 1960.

J. F. SMITHIE, M.I.Mun.E.,
Engineer and Surveyor.

Council Offices,
Bletchley.
27th September, 1960.

BOROUGH OF NUNEATON

Applications are invited for the following appointment in the Borough Engineer and Surveyor's Department:—

Building Maintenance Surveyor

Grade A.P.T. II (£815–£950). Candidates should have a sound knowledge of Building Construction and be capable of preparing estimates and specifications. Housing accommodation may be made available if necessary.

Forms of application which must be returned not later than 21st October, 1960, may be obtained from the Borough Engineer and Surveyor, Council House, Nuneaton.

Council House, A. A. CRABTREE,
Nuneaton. Town Clerk.
29th September, 1960.

DEPARTMENT OF HEALTH FOR SCOTLAND

QUANTITY SURVEYOR

(MAIN GRADE)

Pensionable post in Edinburgh for man or woman at least 35 on 1.10.60 who has achieved corporate membership of Royal Institution of Chartered Surveyors (Quantities Section) and has had good all round experience. Duties include advising the Department on costs of buildings, materials and methods of construction. Travelling involved. Salary Scale (men): £1285—£1730. Write **Establishment Officer, Department of Health for Scotland (Room 30), St. Andrew's House, Edinburgh, 1,** for application form. Closing date 21st October, 1960.

SALOP

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited from qualified men experienced in the design of heating and electrical installations for the post of PRINCIPAL ASSISTANT ENGINEER. The man appointed will be required to act as Deputy to a newly appointed Chief Engineer, and knowledge of modern methods is desirable. Salary grade A.P.T. V (£1,220 rising to £1,375 p.a.). N.J.C. Conditions. During the early stages of the appointment a separation or disturbance allowance can be paid to a married man pending the finding of housing accommodation. Conditions of service and application forms obtainable from Ralph Crowe, A.A.Dipl., A.R.I.B.A., A.M.T.P.I., County Architect, Column House, London-road, Shrewsbury. Closing date 21st OCTOBER, 1960.

HUNTINGDONSHIRE.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:

(a) ARCHITECTURAL ASSISTANTS, Special Grade (£785-£1,070).
(b) ARCHITECTURAL ASSISTANT, Grade A.P.T. II (£765-£880).

The persons appointed will become members of small architectural teams engaged in projects of varying size. It is desired that the persons appointed shall be keenly interested in architecture with an up-to-date approach to both planning and design.

Application forms and further particulars may be obtained from The County Architect, County Buildings, Huntingdon; completed forms should be returned to the undersigned as soon as possible.

A. C. AYLWARD,
Clerk of the County Council.
County Buildings,
Huntingdon.

EAST BARNET

URBAN DISTRICT COUNCIL.

Applications are invited from suitably qualified persons for the following permanent appointments:

(i) SENIOR ASSISTANT ARCHITECT, A.P.T. IV, plus London Weighting.
(ii) ARCHITECTURAL ASSISTANT, A.P.T. II, plus London Weighting.
(iii) ARCHITECTURAL DRAUGHTSMAN, A.P.T. I, plus London Weighting.
(iv) SENIOR ASSISTANT ENGINEER, A.P.T. IV, plus London Weighting.
(v) ASSISTANT ENGINEER, Special Grade plus London Weighting.

Application Forms, obtainable from the Engineer and Surveyor, Town Hall, Station-road, New Barnet, Hertfordshire, must be returned by not later than MONDAY, 24th OCTOBER, 1960.

NOTTINGHAM CITY.

ESTATES DEPARTMENT.
APPOINTMENT OF ASSISTANT QUANTITY SURVEYOR.

Applications are invited for the appointment of ASSISANT QUANTITY SURVEYOR in the Estates Department at a salary in A.P.T. IV (£1,140-£1,310 subject to confirmation of new salary scales). Candidates must have passed the final examination of the Royal Institution of Chartered Surveyors.

The Department is engaged on a large and varied programme of multi-storey flat development in addition to housing and ancillary services and experience in these fields will be of assistance.

The appointment will be superannuable and the successful candidate will be required to pass a medical examination.

Applications stating age, present and previous appointments, together with names and addresses of two referees are to be sent to the Estates Surveyor and Valuer, The Guildhall, Nottingham, by FRIDAY, 14th OCTOBER, 1960.

T. J. OWEN,
Town Clerk.

The Guildhall,
Nottingham.

LEEDS CITY.

CITY ARCHITECT'S DEPARTMENT.
AMENDED ADVERTISEMENT.

Applications are invited from persons holding appropriate professional qualifications for the following permanent posts:

(a) ASSISTANT CITY ARCHITECT, (HOUSING).
(b) ASSISTANT CITY ARCHITECT (EDUCATION AND GENERAL).

Salary scale £1,790-£2,085 per annum. Grade "F."

The Assistant City Architect (Housing) will be concerned with large house building programmes and should have had a wide experience of all forms of housing layout, comprehensive developments and multi-storey flats.

The Assistant City Architect (Education and General) will be concerned with major educational building projects and large public buildings, e.g. multi-storey college, municipal office block, abattoir, swimming baths, etc.

Both posts carry great responsibilities and offer worthwhile opportunities to those who are keenly interested in design and the planning and organisation of extensive municipal building schemes.

Applications are also invited for the following permanent posts in (a) Housing, and (b) Education and General sections of the department.

1. PRINCIPAL ARCHITECTS, Grade C. Salary Scale, £1,385-£1,620.
2. ASSISTANT PRINCIPAL ARCHITECTS, Grade B. Salary Scale, £1,320-£1,485.
3. SENIOR ASSISTANT ARCHITECTS, Grade A.P.T. V. Salary Scale, £1,220-£1,375.
4. SENIOR ASSISTANT ARCHITECTS, Grade A.P.T. IV. Salary Scale, £1,065-£1,220.
5. ASSISTANT ARCHITECTS, Grade A.P.T. III. Salary Scale, £880-£1,065.
6. ARCHITECTURAL ASSISTANTS, Grade A.P.T. II. Salary Scale, £765-£880.

(The salaries quoted are subject to revision.)

Applicants for the senior posts must hold appropriate professional qualifications and should have had a wide experience in either housing, education, or other types of large public building work and will be required to design and work on these projects to completion. Applicants will be considered on their capability for design, experience, contemporary outlook and suitability.

The appointments are superannuable. Medical examination.

ASSISTANCE WILL BE GIVEN IN PROVIDING HOUSING ACCOMMODATION IN APPROVED CASES, IF REQUIRED.

Further details and application forms obtainable from the undersigned, are to be returned by 12 noon on FRIDAY, 21st OCTOBER, 1960.

Canvassing disqualifies.

J. R. SHERIDAN-SHEDDEN,
City Architect.

Priestley House,
Quarry Hill,
Leeds, 9.
21st September, 1960.

LEICESTER CITY.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments within the salary of Grade A.P.T. IV (£1,065-£1,220):

(a) GROUP LEADER—EDUCATION.
(b) GROUP LEADER—GENERAL.

The post in the Education Section will interest architects concerned in modular co-ordination and prefabricated systems of building.

Current projects of the General Section include an Area Fire Station, new Municipal Swimming Baths and Homes for Aged Persons.

Previous local government experience not essential. Housing accommodation at an economic rent will be provided if necessary.

National Conditions of Service apply.

Applications stating post applied for together with the names of two referees should reach the undersigned not later than WEDNESDAY, 12th OCTOBER, 1960.

J. H. LLOYD OWEN,
City Architect.

10 Loseby-lane,
Leicester.

CASTLEFORD

BOROUGH.

HOUSING MAINTENANCE SUPERINTENDENT.

Applications are invited for this position at a standing weekly wage at the Building Tradesmen's Rate for the time being in force (at present £10 18s. 2d. for a 44-hour week), plus £4 15s. per week in respect of overtime and responsibility.

The successful applicant will supervise the maintenance of all Council properties including Council houses which at present number 4,660.

In the event of the successful applicant not exceeding the age of 40 years, the appointment will be superannuable subject to the applicant passing satisfactorily a medical examination.

Housing accommodation will be provided, if required, for the successful applicant.

Applications, stating age, qualifications and giving details of experience and previous employment and accompanied by copies of not more than two recent testimonials, should reach the undersigned not later than 21st OCTOBER, 1960.

Canvassing disqualifies.

ERNEST HUTCHINSON,
Town Clerk.

Town Hall,
Castleford.

WOLVERHAMPTON

COUNTY BOROUGH.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) PRINCIPAL ASSISTANT ARCHITECTS, salary within Grades A.P.T. IV to V (£1,140-£1,480).
(b) SENIOR ASSISTANT ARCHITECT, salary Grade A.P.T. IV (£1,140-£1,310).
(c) ASSISTANT ARCHITECTS, salary in accordance with the Special Scale (£840-£1,145).
(d) ARCHITECTURAL ASSISTANTS, salary within Grades A.P.T. I to II (£645-£960).
(e) ARCHITECTURAL DRAUGHTSMEN, salary Grade Miscellaneous Scale IV (£625-£685).

Commencing salaries according to qualifications and experience.

Housing accommodation and car allowances may be made available in respect of posts (a) and (b).

Applications, stating age, qualifications, training and experience, and naming two referees, to the Borough Engineer, Town Hall, Wolverhampton, by MONDAY, 24th OCTOBER, 1960.

DARLINGTON

COUNTY BOROUGH.

DEPUTY BOROUGH ARCHITECT.

Applications are invited for the above appointment. Salary within the range £1,525 plus £45(4) plus £40(1) to £1,745.

The Department has a large programme including Secondary and Primary Schools, Housing, Welfare Schemes, Municipal Offices, Markets and Central Redevelopment. Preference will be given to candidates experienced in this class of work and who are members of the R.I.B.A.

Application giving full particulars of age, qualifications, present appointment with salary, previous appointments with dates, and name and address of three referees to be received by E. A. Tornbohm, A.R.I.B.A., A.M.T.P.I., Borough Architect, Central Buildings, Darlington, not later than 19th OCTOBER, 1960.

29th September, 1960.

LONDON

COUNTY COUNCIL.

HAMMERSMITH COLLEGE OF ART AND BUILDING.

PRINCIPAL LECTURER required to teach in and to be responsible for the organisation and development of classes in Science and Mathematics throughout the college.

Applicants should hold a good science degree of a British University or an equivalent professional qualification and be experienced in the application of science to building.

Teaching experience desirable but not essential. Salary £1,750 x £50-£1,900 plus London allowance of £38 or £51.

Particulars from the College Secretary (FE.3/B/2524/10), Lime-grove, W.12, to be returned within 14 days.

SOUTHAMPTON

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the permanent post of SENIOR ASSISTANT PLANNING OFFICER, A.P.T. V (£1,310-£1,480).

Applicants should be Associate Members of the Town Planning Institute and possession of a University degree or other appropriate qualification will be of advantage. The post is second to the Senior Planning Officer in charge of the Planning Section of the Department and requires experience in a senior capacity of technical and administrative planning work.

Housing accommodation available in approved cases, and approved removal expenses reimbursed up to a maximum of £50. Commencing salary within grade according to experience and qualifications.

Application forms from the Borough Architect, Civic Centre, Southampton, returnable by 22nd OCTOBER, 1960.

METROPOLITAN WATER BOARD.

ARCHITECTURAL STAFF.

Applications are invited for the following appointments in the Surveyor's department:—

(a) ASSISTANT ARCHITECTS.
Salary scale £1,180-£1,300 per annum.
(b) TECHNICAL ASSISTANT.
Salary scale £730 (at age 21)-£1,110 per annum.

Commencing salaries within the above scales according to age and experience.

Applicants for posts (a) must be corporate members of the Royal Institute of British Architects and should have had experience in the design, preparation of plans and working drawings and specifications for the erection of houses and offices. The provision of housing accommodation would be considered.

Applicants for post (b) must have passed the intermediate examination of the Royal Institute of British Architects.

These are permanent pensionable posts offering interesting work with good conditions of service.

Forms of application from the undersigned (quoting ref. B and position applied for) to be returned by 24th OCTOBER, 1960.

S. D. ASKEW,
Clerk of the Board.

New River Head,
Rosebery-avenue, E.C.1.

SOUTHAMPTON

COUNTY BOROUGH EDUCATION COMMITTEE.
SOUTHAMPTON TECHNICAL COLLEGE.

Principal: F. T. West, M.B.E., A.I.Struct.E., M.I.Prod.E.

DEPARTMENT OF BUILDING.

LECTURER required 1st January, 1961 to teach QUANTITIES, ESTIMATING and KINDRED SUBJECTS to Final examination standard in R.I.C.S. and I.Q.S. courses. Candidates must be Chartered Quantity Surveyors. Salary Scale (Burnham F.E. Report) £1,370 x £35—£1,550. Further details and application forms (to be returned in 14 DAYS) from Chief Education Officer (Ref. 57/66), Civic Centre, Southampton.

BEDFORD

BOROUGH.

Appointment of:—

(a) ASSISTANT ARCHITECT, A.P.T. II, £765-£880.
(b) ASSISTANT QUANTITY SURVEYOR, A.P.T. I, £610-£765.

(a) Preference will be given to applicants who have passed the Intermediate Examination of the R.I.B.A., the point of entry within the grade being determined by experience and/or further qualifications.

(b) Preference will be given to applicants who have passed the Intermediate Examination of the R.I.C.S. or I.Q.S., or are preparing to take one of these examinations in the near future.

The Council has in hand a building programme including schools, multi-storey flats, shops and public offices.

The Council is prepared to assist in the provision of housing accommodation if necessary and will refund removal expenses in the case of each post.

Forms of application and particulars of the appointment may be obtained from the undersigned by whom applications should be received not later than FRIDAY, 21st OCTOBER, 1960.

F. W. DAWKES,
Borough Engineer and Surveyor.

Newnham House,
Horne-lane,
Bedford.

ELSTREE

RURAL DISTRICT COUNCIL.

TECHNICAL ASSISTANT.
Grades A.P.T. I-II.

Applications are invited for the above appointment in Engineer and Surveyor's Department for work in connection with housing and other building schemes. Salary within Grades A.P.T. I-II, £645-£960 per annum plus appropriate London Weighting.

Applicants should hold, or be studying for, one of the recognised Quantity Surveying qualifications and must have a sound knowledge of building construction and Contract procedure, also experience with either Local Authorities or Contractors in drawing up Specifications, preparing Bills of Quantities, measuring work in progress and dealing with accounts.

The appointment will be subject to the National Scheme of Conditions of Service, the provisions of the Local Government Superannuation Acts, 1937-1953, and will be determinable by one month's notice, in writing, on either side. The successful candidate will be required to pass a medical examination.

Applications, together with a copy of one testimonial and the name and address of one referee, should be sent in envelopes endorsed "Technical Assistant" to the Engineer and Surveyor to arrive on or before MONDAY, 24th OCTOBER, 1960.

Relationship to any Member or Officer of the Council must be disclosed and canvassing directly or indirectly will disqualify.

A. LANCASHIRE,
Clerk of the Council.

Council Offices,
Shenley-road,
Boreham Wood,
Herts.
27th September, 1960.

DEVON
COUNTY COUNCIL.

Require 2 SENIOR ARCHITECTS on A.P.T. V (£1,220-£1,375), 5 SENIOR ARCHITECTS on A.P.T. IV (£1,065-£1,220) and 4 SENIOR ARCHITECTS on N.J.C. Special Scale (£785-£1,070).

In approved cases, loans for house purchase and removal expenses are available—also lodging allowance for married officers while seeking accommodation.

Particulars and Application Form, returnable by 21st OCTOBER, 1960, from County Architect, 97 Heavitree-road, Exeter.

LEEDS CITY.

CITY ARCHITECT'S DEPARTMENT.
QUANTITY SURVEYING STAFF.
AMENDED ADVERTISEMENT.

A number of vacancies occur in the Quantity Surveying Section which deals with the preparation of bills of quantities and other work in connection with the large building programmes of the department. These programmes include schools, housing with multi-storey flats, hostels and other interesting projects and the posts offer opportunities to work as part of a team in a progressive office.

1. SENIOR ASSISTANT QUANTITY SURVEYOR, Grade B. Salary Scale, £1,320-£1,485.

Applicants should have wide experience in the preparation of bills of quantities for major works including schools.

2. SENIOR ASSISTANT QUANTITY SURVEYOR, Grade A. Salary Scale, £1,310-£1,420.

Applicants should have considerable experience in taking off and preference will be given to those with experience in cost analysis and cost planning.

3. SENIOR ASSISTANT QUANTITY SURVEYORS, Grade A.P.T. V. Salary Scale, £1,220-£1,375.

Applicants should have considerable experience in taking off, in the measurement of work in progress and the settlement of final accounts for major schemes.

4. SENIOR ASSISTANT QUANTITY SURVEYORS, Grade A.P.T. IV. Salary Scale, £1,065-£1,220.

5. SENIOR ASSISTANT QUANTITY SURVEYORS, Grade A.P.T. III. Salary Scale, £880-£1,065.

Applicants for posts Nos. 4 and 5 should be experienced in the measurement of variations and the settlement of final accounts for large schemes and should have some experience of taking off.

6. SENIOR WORKER-UP, Grade A.P.T. III. Salary Scale, £880-£1,065.

It is essential that applicants for this post should have the ability to write a good bill for major schemes and should have wide experience of this type of work in a professional office.

(The salaries quoted are subject to revision.)

Applicants for posts Nos. 1, 2 and 3 should hold appropriate professional qualifications and applicants for posts Nos. 4 and 5 should have reached the appropriate standard of qualification and preference will be given to those qualifying for the Quantities sub-division of the R.I.C.S.

The appointments are superannuable. Medical examination.

ASSISTANCE WILL BE GIVEN IN PROVIDING HOUSING ACCOMMODATION IN APPROVED CASES, IF REQUIRED.

Further details and application forms may be obtained from the undersigned and applications are to be returned by 12 noon on FRIDAY, 21st OCTOBER, 1960.

Canvassing disqualifies.

J. R. SHERIDAN-SHEDDEN,
City Architect.

Priestley House,
Quarry Hill,
Leeds, 9.
21st September, 1960.

STEVENAGE
URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following permanent appointments:—

(a) BUILDING SURVEYOR/ENGINEERING ASSISTANT, Grade A.P.T. V (£1,310-£1,480 per annum), commencing at £1,310 per annum.

Candidates must possess suitable professional qualifications and have a sound knowledge of the design and construction of buildings, building quantities and of valuations for house purchase. Preference will be given to those who have passed the Final Examination of the Royal Institution of Chartered Surveyors.

(b) ENGINEERING ASSISTANT, Grade A.P.T. II (£815-£960 per annum).

Candidates must have previous municipal engineering experience.

In the case of both appointments housing accommodation will be provided if required and a casual user car allowance will be paid.

The appointments will be the subject of the Local Government Superannuation Acts and to the passing of a medical examination. The appointments are terminable by one month's notice on either side.

Applications, stating age, past and present appointments and experience, together with the names of two referees, must be delivered to the undersigned not later than 19th OCTOBER, 1960.

E. J. BOWERS,
Clerk of the Council.

Council Offices,
Orchard-road,
Stevenage.

DORSET
COUNTY COUNCIL.

PLANNING ASSISTANT (A.P.T. II—£815-£960) required in County Planning Department. Applicants should have had experience in a Planning Office and be studying for the Town Planning Institute examinations.

Applications giving details of age, education, experience, past and present appointments and naming three referees to the Clerk, County Hall, Dorchester, by the 21st OCTOBER, 1960.

LONDON
COUNTY COUNCIL.

BRIXTON SCHOOL OF BUILDING.

Required as soon as possible, ASSISTANTS, Grade B, to teach in Surveying courses:

1. Building Construction and Quantities.
(2. Legal subjects and Valuations.

Candidates should be corporate members of R.I.C.S. with experience of professional practice, teaching experience a recommendation.

Salary £700 x £27 10s.-£1,150 plus London Allowance £38 or £51, with increments for approved professional experience. Additions for qualifications and training.

Application forms (foolscap s.a.e.) from Secretary (FE.3/B/2534/10), Ferndale-road, S.W.4, returnable within two weeks.

WORCESTER CITY.

APPOINTMENT OF CHIEF ASSISTANT ARCHITECT.

Applications are invited for this post within A.P.T. Grade V (salary £1,310-£1,480). Candidates must hold the A.R.I.B.A. qualification and have had considerable experience in housing and other general municipal works.

A house will be made available to the successful candidate, and an essential users' car allowance is applicable to the post.

The appointment is superannuable and conditional upon the passing of a medical examination.

Applications, together with the names of two referees, stating age, qualifications and experience, are to be sent to the City Engineer and Surveyor, 22 Bridge-street, Worcester, to reach him not later than FRIDAY, the 14th OCTOBER.

BERTRAM WEBSTER,
Town Clerk

Guildhall,
Worcester.

WAKEFIELD CITY.

CITY ENGINEER'S DEPARTMENT.
ASSISTANT QUANTITY SURVEYOR.

Applications are invited for the superannuable appointment of ASSISTANT QUANTITY SURVEYOR—Special Grade.

Candidates must be members by examination of the R.I.C.S. or I.Q.S., and preferably should have experience in large scale Local Authority Housing, Schools and other municipal projects.

Housing accommodation will be provided if necessary.

Applications, stating age, qualifications and experience, and the names of two referees, should be received by the City Engineer, Town Hall, Wakefield, not later than 17th OCTOBER, 1960.

METROPOLITAN POLICE.

RECEIVER'S OFFICE.

Requires STAFF for interesting and varied work in connection with an extensive Police Building Programme.

Basic Grade ARCHITECTS. Salary: £830 p.a. at age 25 rising by annual increments to £1,300 p.a. (Maximum salary on entry: £1,125 being age 34 point on scale.)

Qualifications required: Applicants must be registered Architects.

LEADING DRAUGHTSMEN/WOMEN (NEW WORKS and SANITARY ENGINEERING). Salary: £980 p.a. at age 21 rising by annual increments to £1,145 p.a.

Qualifications required: Inter-R.I.B.A., Higher National Certificate or equivalent training.

BASIC GRADE DRAUGHTSMEN/WOMEN (NEW WORKS). Salary: £600 p.a. at age 21 rising by annual increments to £980 p.a. (Maximum salary on entry: £895 being age 28 point on scale.)

Qualifications required: Ordinary National Certificate or to be of Inter-R.I.B.A. standard.

TECHNICAL ASSISTANT II (NEW WORKS). Salary: £975 p.a. rising by annual increments to £1,115 p.a.

Qualifications required: Ordinary National Certificate as a minimum qualification or to be of Inter-R.I.B.A./R.I.C.S. (Building) standard.

TECHNICAL ASSISTANTS III (NEW WORKS and MAINTENANCE.) Salary: £820 p.a. at age 26 rising by annual increments to £975 p.a. (Maximum salary on entry £875 p.a. being age 28 point on scale.)

Qualifications required: Ordinary National Certificate as a minimum qualification or to be of Inter-R.I.B.A./R.I.C.S. (Building) standard.

ASSISTANT SUPERINTENDENT OF WORKS III (MAINTENANCE). Salary: £820 p.a. at age 26 rising by annual increments to £975 p.a. (Maximum salary on entry £875 p.a. being age 28 point on scale.)

Qualifications required: Ordinary National Certificate or City & Guilds.

Application forms can be obtained from Chief Clerk, Architect and Surveyor's Department, New Scotland Yard, S.W.1.

COUNTY BOROUGH OF NEWPORT

The town is a rapidly expanding industrial and tourist centre within easy reach of fine country and seaside. The Authority has a large and varied programme of work which offers exceptional opportunities of gaining wide experience.

Applications are invited from suitably qualified persons for the following established posts.

For every appointment commencing salary may be at any point within the range shown—according to qualifications and experience.

ASSISTANT ARCHITECT
Grade APT IV (£1,140-£1,310)

ASSISTANT ARCHITECTS
Special Grade APT IV (£840-£1,310)

ASSISTANT ARCHITECTS
Special Grade (£840-£1,145)

ARCHITECTURAL ASSISTANT
Grade APT II (£815-£960)

ARCHITECTURAL ASSISTANTS
Grade APT I (£645-£815)

ASSISTANT QUANTITY SURVEYOR
Grade APT IV (£1,140-£1,310)

ASSISTANT QUANTITY SURVEYOR
Grade APT II (£815-£960)

BUILDING SURVEYOR/MAINTENANCE
Assistant, Special Grade (£840-£1,145)

HEATING ENGINEER,
Grade APT IV (£1,140-£1,310)

ASSISTANT HEATING ENGINEER
Grade APT III (£960-£1,140)

Housing accommodation will be made available according to circums ances.

A five-day working week is in operation.

Application forms from Borough Architect, Civic Centre, Newport, Mon., returnable not later than 24th October, 1960.

BLACKPOOL
COUNTY BOROUGH.

Applications are invited for the following Appointments in the Borough Surveyor's Department:—

ARCHITECTURAL ASSISTANT, A.P.T. I, £610-£765.

ASSISTANT ARCHITECTS. Special Grade, £785-£1,070.

ASSISTANT QUANTITY SURVEYORS. Special Grade, £785-£1,070.

Particulars and Forms of Application from Borough Surveyor (Arthur Hamilton, B.Sc., A.R.I.B.A.), P.O. Box 17, Municipal Offices, Blackpool.

BOURNEMOUTH
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of:

(A) JUNIOR ASSISTANT QUANTITY SURVEYOR.

(B) JUNIOR ASSISTANT QUANTITY SURVEYOR.

(C) THREE ARCHITECTURAL ASSISTANTS.

Salary Grades (subject to revision) for Post (A), A.P.T. II, £765-£880 p.a., and Posts (B) and (C) A.P.T. I, £610-£765 p.a., but successful candidates will be appointed at present salary if within the incremental scale.

Candidates must have passed the Intermediate Examination of the R.I.C.S. for Posts (A) and (B), and R.I.B.A. for Post (C).

Application forms and further particulars from Borough Architect, Town Hall, Bournemouth. Completed applications to reach the undersigned by 10 a.m., 22nd OCTOBER, 1960.

A. LINDSAY CLEGG,
Town Clerk.

THE ARCHITECTURAL ASSOCIATION SCHOOL
OF ARCHITECTURE.

APPOINTMENT OF FIFTH YEAR MASTER.

The Council of the Association offers an APPOINTMENT FOR THE FIFTH YEAR MASTER at the Architectural Association School of Architecture.

The appointment is full time for four days a week during the academic year.

The salary is £1,250 per annum.

Full details of the appointment may be had on application to the Secretary, Architectural Association, 36 Bedford-square, London, W.C.1.

LONDON
COUNTY COUNCIL.

BRIXTON SCHOOL OF BUILDING, FERNDALE-ROAD, S.W.4.

Required as soon as possible ASSISTANT LECTURER (Grade B) in Department of Architecture.

The duties will include teaching and studio supervision and the inauguration of a College Planning research project for which time and suitable facilities will be given. Salary £700 x £27 10s.-£1,150, plus London Allowance £38 or £51 and additions for qualifications and training. Increments within the scale for approved professional experience. Candidates should be corporate members of R.I.B.A. preferably with a Diploma of a Recognised School. Application forms (foolscap s.a.e.) from Secretary, returnable within 2 weeks.

Please quote (Estab. SES/B/2545/10).

SOUTH WEST DURHAM
HOSPITAL MANAGEMENT COMMITTEE.

APPOINTMENT OF BUILDING SUPERVISOR.

Applications are invited for the appointment of a BUILDING SUPERVISOR whose responsibilities will include

(i) Supervision of the building maintenance work of the Group, and the direction of building trade labour (approximately 20 tradesmen);
(ii) Preparation of building maintenance estimates;
(iii) Preparation of specifications, drawings and contracts for building maintenance works and minor structural alterations;
(iv) The supervision of larger works undertaken by outside contract;
(v) The maintenance of stores and office records appertainable to these duties.

Applicants must have served a full apprenticeship followed by experience as a craftsman in an appropriate trade, and also as a general foreman in the carrying out of building contracts. Possession of the Ordinary National Certificate in Building, or a similar qualification, will be an advantage.

The person appointed will be based at the General Hospital, Bishop Auckland, and will be required to reside within the Bishop Auckland area.

The salary scale (at present £725 rising to £870 per annum) and all other conditions are in accordance with the Whitley Council for the Health Services.

Applications, giving full particulars of age, qualifications and experience, and the names and addresses of three referees, should reach the Group Secretary, General Hospital, Bishop Auckland, not later than 21st OCTOBER, 1960.

CUMBERNAULD DEVELOPMENT CORPORATION

Vacancies exist within the Department of the Chief Architect and Planning Officer for the under-noted staff :—

(1) **Assistant Planning Officers (Grade B)**, A.R.I.B.A. and A.M.T.P.I. required. Salary Scale, A.P.T. V/VI—**(£1220/£1390.)**
(2) **Assistant Architects (Grade B)** A.R.I.B.A. required. Salary Scale, A.P.T. V/VI—**(£1220/£1390).**
(3) **Assistant Architects (Grade C)** A.R.I.B.A. required. Salary Scale A.P.T. III—**(£880/£1065).**
(4) **Architectural Assistants (Grade D)** .Intermediate A.R.I.B.A required. Salary Scale, A.P.T. I/II —**(£610/£880).**
(5) **Engineering Assistant (Grade B)**. University degree and/or A.M.I.C.E., or A.M.I.Mun.E. required. Salary Scale, A.P.T. V/VI —**(£1220/£1390).**
(6) **Assistant Electrical Engineer**. H.N.C. or Grad.I.E.E. required. Salary Scale, A.P.T. III—**(£880/£1065).**
(7) **Architectural/Planning Draughtsman.** The scope of work for this post is wide and applicants should be able to develop finished drawings from sketch plans. Experience in preparation of free-hand sketches, perspectives and colouring, would be an advantage. Salary Scale, A.P.T. I—**(£610/£765).**

All these posts offer excellent experience in a variety of projects in the development of the New Town.
In all cases the salary scales are at present under review.
Commencing salaries within the above grades will be fixed according to qualifications and experience.
Five-day week.
Local Government Superannuation, subject to medical examination.
Canteen facilities.
Assistance will be given with housing where appropriate.
Application forms which can be obtained from the

General Manager,
Cumbernauld Development Corporation,
Cumbernauld House,
Cumbernauld, Glasgow,

should be returned NOT LATER THAN Monday, 17th Oct., 1960.

LANCASHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
SENIOR ASSISTANT ARCHITECTS, N.J.C. Scale " B," £1,320 to £1,485 (now under review) according to experience.

Applications are invited from experienced, registered ARCHITECTS to deal with a wide variety of buildings, including Magistrates' Courts, Police Training Schools and Technical Colleges.

Application Forms and details of appointment from The County Architect, P.O. Box 26, County Hall, Preston, returnable by 21st OCTOBER, 1960, quoting reference A/B.

NORTHAMPTON
COUNTY BOROUGH.

TWO SENIOR ASSISTANT ARCHITECTS, A.P.T. IV-V. (£1,140-£1,480.)

Applications are invited for these APPOINTMENTS in Northampton which has an interesting programme of new schools, Municipal buildings and multi-storey flats in redevelopment schemes.

Commencing salaries will depend upon ability and experience.

Full particulars and application forms, returnable by 19th OCTOBER, from Borough Architect, Guildhall, Northampton.

C. E. VIVIAN ROWE,
Town Clerk.

WESSEX
REGIONAL HOSPITAL BOARD.

Applications are invited from Chartered QUANTITY SURVEYORS for the post of SENIOR ASSISTANT QUANTITY SURVEYOR (£1,300 x £60(5) to £1,600 per annum). Experience in cost planning will be an advantage, but good all-round ability is essential.

Application forms may be obtained from the Secretary, Highcroft, Romsey-road, Winchester, and should be completed and returned not later than 21st OCTOBER, 1960.

HORNCHURCH
URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.
APPOINTMENT OF CLERK OF WORKS (BUILDING).

Applications are invited from suitably qualified persons for the ABOVE APPOINTMENT. Applicants must have had considerable experience in the supervision of housing construction, have a sound knowledge of all the trades in connection therewith, including the setting out and measurement of all works on the site, and the keeping of the necessary records.

The salary to be paid is within the range of the Miscellaneous Division, Grade VI, £760-£825 per annum, and in addition, an amount equivalent to London Weighting will be paid.

The post is subject to the appropriate N.J.C. Conditions of Service, the normal hours worked in the building trade, a medical examination, and termination by one month's notice on either side.

Applications, on the forms provided by the undersigned, stating qualifications, experience and the names of two referees, must be returned not later than TUESDAY, 17th OCTOBER, 1960.

P. L. COX,
Clerk of the Council.

Council Offices,
Billet-lane,
Hornchurch,
Essex.
30th September, 1960.

SOLIHULL
BOROUGH.

APPOINTMENT OF QUANTITY SURVEYING ASSISTANTS.

Applications are invited from Quantity Surveyors with suitable qualifications and experience for the undermentioned appointments :—

(a) ASSISTANT QUANTITY SURVEYORS, A.P.T. Grade IV (£1,140-£1,310 per annum).

(b) ASSISTANT QUANTITY SURVEYOR, A.P.T. Grade III (£960-£1,140 per annum).

The Borough, which has a population of approximately 90,000 and which is still expanding rapidly, is an Excepted District for education and has been recommended for County Borough status by the Local Government Commission for England. There is a considerable programme of varied capital works to be undertaken in the very near future.

The appointments will be subject to satisfactory medical reports, the Local Government Superannuation Acts, the National Scheme of Conditions of Service, and to one month's notice on either side.

In appropriate cases the Council will assist in the provision of housing accommodation, and half removal expenses will be paid.

Applications, giving full particulars as to age, qualifications and post and present experience, together with the names and addresses of two referees, should be submitted to the Borough Engineer and Surveyor, 90 Station-road, Solihull, Warwickshire, not later than FRIDAY, 21st OCTOBER, 1960.

W. MAURICE MELL,
Town Clerk.

The Council House,
Solihull,
Warwickshire.
3rd October, 1960.

LONDON
COUNTY COUNCIL.

Ardale Approved school, Stifford, Grays, Essex, for boys aged 15-17 years. Non-resident qualified MASTER required for post of TRADE INSTRUCTOR OF PLASTERING. Burnham scale with approved school addition of £120. Cash payment of £216 in return for extraneous duties outside school hours averaging not less than 15 hours a week. Eight weeks' holiday. Apply on form TS40 from Education Officer (TS.5 B/2501/9), returnable to headmaster within 14 days.

HEXHAM AND DISTRICT
HOSPITAL MANAGEMENT COMMITTEE.

BUILDING SUPERVISOR.

Applications are invited for the post of BUILDING SUPERVISOR to the Committee. The person appointed will be responsible for the building maintenance work of nine hospitals in the Group, including the preparation of specifications and contracts for such work, the preparation of building maintenance estimates, direction of building trade labour, the preparation of drawings, specifications and contracts for minor capital works and the maintenance of such records, etc., as required. He may also be required to supervise the execution of capital works of moderate size.

Applicants must have served a full apprenticeship followed by experience as a craftsman in an appropriate trade and have had some years' experience as a general foreman in the carrying out of building contracts. The Ordinary National Certificate in Building, or a comparable qualification, is desirable.

Salary £725 x £25 (1) x £30 (4)—£870 per annum, with terms and conditions of service in accordance with the appropriate Whitley Council agreements.

Applications, giving age, qualifications and experience, together with the names of three referees, should reach the Group Secretary, General Hospital, Hexham, Northumberland, not later than 14th OCTOBER, 1960.

WYCOMBE
RURAL DISTRICT COUNCIL.

APPOINTMENT OF CLERK OF WORKS.
PENN AND TYLERS GREEN SEWERAGE SCHEME.

Applications are invited for the above appointment at a salary of £880 per annum plus a car allowance in accordance with the N.J.C. scale for a car not exceeding 1,199 c.c. on an essential user basis.

The Council will be prepared to assist in providing housing accommodation if necessary.

The appointment will be for a minimum of two years, and offers good practical experience for an Assistant interested in outside work and supervision of large contracts, as well as to those previously engaged as Clerks of Works or Resident Engineers.

Applicants must have had experience of similar works, be capable of levelling, setting out, measuring up, keeping records, testing, and of supervising construction works.

Applications stating age, qualifications and experience, together with the names and addresses of two referees must be forwarded to the Engineer and Surveyor, 8-9 Easton-street, High Wycombe, not later than FRIDAY, the 21st OCTOBER, 1960.

L. C. RYSDALE,
Clerk of the Council.

17 High-street,
High Wycombe.

LONDON
MASTER BUILDERS ASSOCIATION.

APPOINTMENT OF SECRETARY.

Applications are invited for appointment as SECRETARY of the above Association which is the London Region of the National Federation of Building Trades Employers. He will be responsible, subject to the general authority of the Director, for the secretarial work in connection with the Council, Executive Committee and certain other Committees, and also for general administration of the Association. It is desirable that the Secretary should have experience of a similar Employers' Organisation and of industrial negotiations and he should preferably have a legal background.

The successful candidate should be available to take up his duties by 1st JANUARY, 1961. The commencing salary will be not less than £1,750 per annum depending upon the qualifications and experience of the person selected. Superannuation provisions apply.

Persons interested should write by 14th OCTOBER for full details of duties and for an Application Form which is returnable not later than 28th OCTOBER, to the Director at 47 Bedford-square, London, W.C.1, the envelope being marked " Secretary " in the top left-hand corner.

CANNOCK
URBAN DISTRICT COUNCIL.

(Population 43,020.)
SENIOR ARCHITECTURAL ASSISTANT,
ARCHITECT'S DEPARTMENT.

Applications are invited for this APPOINTMENT at a commencing salary within Grade A.P.T. III (£960-£1,140) or IV (£1,140-£1,310). The successful applicant will have an opportunity of gaining experience on a variety of capital schemes including new swimming baths, public offices, etc., in addition to a continuous housing programme.

Housing accommodation available, if married.

Further particulars may be obtained from the undersigned to whom applications should be submitted by 18th OCTOBER, 1960.

The area of the Authority is not adversely affected by proposals of the Local Government Commission.

H. C. ALLEN,
Clerk of the Council.

Council House,
The Green,
Cannock,
Staffordshire.
September, 1960.

WYCOMBE
RURAL DISTRICT COUNCIL.

APPOINTMENT OF TECHNICAL ASSISTANT.

Applications are invited for the above APPOINTMENT at a salary in accordance with Misc. Grade VI (£760-£825) plus a car allowance in accordance with the N.J.C. scale for a car not exceeding 1,199 c.c. on an essential user basis. The Council will be prepared to assist in providing housing accommodation if necessary.

The main duties of the appointment will consist of examining proposals for connections of properties to public sewers, inspection of work carried out, and generally in advising members of the public.

Applicants must be capable of taking levels and have had experience in drainage and sanitation works.

Applications stating age, qualifications and experience, together with the names and addresses of two referees must be forwarded to the Engineer and Surveyor, 8-9 Easton-street, High Wycombe, not later than FRIDAY, the 21st OCTOBER, 1960.

L. C. RYSDALE,
Clerk of the Council.

17 High-street,
High Wycombe.

SOUTHAMPTON.
BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent posts :—

Architects' Section

(a) SENIOR ASSISTANT ARCHITECTS, A.P.T. V (£1,310-£1,480).

(b) ASSISTANT ARCHITECTS, A.P.T. III/IV (£960-£1,310).

Applicants for post (a) should be members of the R.I.B.A. fully experienced in the design and administration of major building projects.

Quantity Surveyor's Section

(c) SENIOR QUANTITY SURVEYORS, A.P.T. III/IV (£960-£1,310).

(d) ESTIMATING ASSISTANT, Miscellaneous Grade VI (£760-£825).

Applicants for post (d) should be experienced in estimating for small jobbing works and knowledge of " working up " and/or site measuring will be advantageous.

Building Inspectors' Section

(e) BUILDING INSPECTOR (IMPROVEMENT GRANTS), A.P.T. II (£815-£960).

Applicants for post (e) must be conversant with Improvement Grant procedure and have had wide experience in general building construction.

Housing accommodation available in approved cases, and approved removal expenses reimbursed up to a maximum of £50.

Applicants should possess appropriate qualifications. Commencing salary within grade according to experience and qualifications.

Application forms from the Borough Architect, Civic Centre, Southampton, returnable by 17th OCTOBER, 1960.

SUTTON AND CHEAM
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments in the Architects' Section of the Borough Engineer's Department :

(A) ARCHITECTURAL ASSISTANT, Grade A.P.T. IV (£1,140 to £1,310 p.a.) plus London Weighting £45 per annum.

Candidates must be qualified members of the Royal Institute of British Architects. Work is on an interesting programme of public buildings and housing.

(B) ARCHITECTURAL TRAINEE, General Division (£260 to £630 p.a.) plus London Weighting £15 per annum (Minimum).

To train as an architect and the person appointed will be expected to pursue a part-time day release course of study for the R.I.B.A. examinations. Applicants must have attained the appropriate educational standard required by the R.I.B.A. (e.g. G.C.E. with five prescribed subjects at " O " level).

(C) ASSISTANT BUILDING SURVEYOR, Grade A.P.T. II-III (£815 to £1,140 p.a.), plus London Weighting £25-£45 per annum.

To be engaged generally on the work of maintaining public buildings and other Corporation properties. Applicants should have a good general experience of the building trades and be capable of inspecting and reporting on buildings, preparing estimates and specifications, arranging contracts and supervision of the works, etc.

The commencing salaries will be according to ability and experience.

In the case of appointments (A) and (C) the Council may consider the provision of housing accommodation where necessary.

The appointments which are terminable by one month's notice in writing on either side, are on the permanent staff of the Corporation, each subject to the provisions of the Local Government Superannuation Acts, 1937-53 and to the National Scheme of Conditions of Service.

The successful candidates will be required to pass a medical examination. Forms of application may be obtained from Mr. C. Needham, M.I.C.E., M.I.Mun.E., A.M.I.Struct.E., Borough Engineer and Surveyor, to whom they should be returned accompanied by copies of two recent testimonials, not later than 22nd OCTOBER, 1960, endorsed " (A) Architectural Assistant, Grade A.P.T. IV," " (B) Architectural Trainee, General Division," or " (C) Assistant Building Surveyor, Grade A.P.T. II-III," whichever applies.

Applicants must state whether they are related to any member or holder of any senior office under the Borough Council. Canvassing in any form will disqualify.

ARTHUR PRIESTLEY,
Town Clerk.

Municipal Offices,
Sutton,
Surrey.
September, 1960.

WEST SUFFOLK
COUNTY COUNCIL.

Applications are invited from suitably qualified persons for the following posts :

(a) ARCHITECTURAL ASSISTANT, within A.P.T. Grade II (£815-£960).

(b) JUNIOR ARCHITECTURAL ASSISTANT, within A.P.T. Grade I (£645-£815).

Position on scales according to qualifications and experience.

N.J.C. Service Conditions ; posts pensionable ; medical examination.

Application forms obtainable from the County Architect, 13 Westgate-street, Bury St. Edmunds, to be returned as soon as possible.

LEEDS CITY.
WORKS DEPARTMENT.

Applications are invited for the following posts :—

(a) TECHNICAL ASSISTANT (Conversions), A.P.T. III (£960-£1,140 p.a.)—two vacancies.

(b) TECHNICAL ASSISTANT (Drawing Office), Grade A.P.T. II (£815-£960 p.a.).

(c) TECHNICAL ASSISTANT (Conversions), Grade A.P.T. I (£645-£815 p.a.)—two vacancies.

(d) QUANTITY SURVEYOR, Grade A.P.T. II (£815-£960 p.a.).

(e) ESTIMATING ASSISTANT, Grade A.P.T. I (£645-£815 p.a.)—two vacancies.

Applicants for :—

(a) will be required to handle in their entirety, conversion schemes, vetting of properties, preparation of drawings and specifications.

(b) Should be experienced in levelling, carrying out detailed surveys of existing buildings, and the preparation of working drawings for adaptations, alterations and improvements of Corporation properties generally.

(c) Will be required to carry out all preparatory surveying work and detailed drawings in connection with conversions of properties.

(d) Must be thoroughly experienced in the preparation of bills of quantities, estimates, site measurement, valuation of works in progress and settlement of final accounts.

(e) Must have a sound knowledge of building construction and be capable of preparing, under supervision, specifications and estimates for works of adaptation and alteration.

A recognised qualification consistent with the appointment would be advantageous.

The appointments are superannuable—medical examination. Forms of application from the Director of Works, Sweet-street, Leeds 11, returnable not later than 22nd OCTOBER, 1960.

THE EAST MIDLANDS
ELECTRICITY BOARD.

NORTHAMPTONSHIRE SUB-AREA.
VACANCY NO. 109/60.
PRINCIPAL ASSISTANT
(BUILDING AND ESTATES SECTION).
Salary : N.J.C. Grade 7, £1,250 x £35 to £1,355 per annum.

The successful applicant should have experience in all aspects of the building trade and the ability to handle projects from initial stages to bills of quantity and supervision of works in progress.

Applications giving details of age, present position and salary, qualifications and experience should be addressed to The Manager, Northamptonshire Sub-Area, 25 Bridge-street, Northampton, within fourteen days of the date of this advertisement.

KETTERING
BOROUGH.

APPOINTMENT OF CLERK OF WORKS.

Applications are invited for the APPOINTMENT OF CLERK OF WORKS, to supervise engineering works, under the direction of the Borough Engineer and Surveyor. The salary will be in accordance with A.P.T. Grade I (at present £610-£765) or A.P.T. Grade II (at present £765-£880) of the National Scales of Salaries according to experience.

Housing accommodation will be available if required.

Candidates should have had previous experience as Clerk of Work of municipal engineering works generally.

The appointment will be subject to termination by one month's notice on either side.

Applications stating age, present appointment, and full details (with dates) of previous appointments with local authorities, and giving names of two persons to whom reference can be made, should be sent to the undersigned so as to be received not later than the 21st OCTOBER, 1960.

D. DUNSFORD PRICE,
Town Clerk.

Town Clerk's Office,
Huxloe-place,
Kettering.

LANCASHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
SENIOR ASSISTANT ARCHITECTS, N.J.C. Scale "B"—£1,320 to £1,485 (now under review according to experience, and covered by Lancashire County Council Superannuation Scheme.

The Governors of Salford College of Advanced Technology are proceeding with a major expansion of the College. This project is to be of advanced design, offering opportunity for experience in the design of buildings to meet the needs of pioneer scientific processes, which are estimated to cost £3,000,000.

The team for this scheme will work with Messrs. Ove Arup & Partners, Structural Consultants, and will include Quantity Surveyors and Mechanical Engineers. The team will work in the County Architect's Office at Preston.

On completion of the project, Architects will be engaged on a wide variety of new buildings for the Lancashire County Council.

Application Forms and details of appointment from :—

The County Architect, P.O. Box 26, County Hall, Preston, returnable by 21st OCTOBER, 1960, quoting reference A/B.

NORTHERN IRELAND
GOVERNMENT.

ASSISTANT ARCHITECT, CLASS II.

Applications invited from Registered ARCHITECTS by examination with at least two years' experience in an Architect's office in preparing working drawings for pensionable post in Chief Architect's Branch, Minister of Finance. Salary scale : £805 (at age 25)-£1,095 (age 34 and over)-£1,260. Existing pension rights may, in certain circumstances, be transferred. Preference for ex-Servicemen. Application forms, obtainable from Secretary, Civil Service Commission, Stormont, Belfast, 4, must be returned by 26th OCTOBER, 1960.

STEVENAGE
URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.
APPOINTMENT OF TEMPORARY CLERK OF WORKS.

Applications are invited for the above appointment at a salary within Grade A.P.T. II (£815-£960 per annum).

Applicants must be experienced in the supervision of building works and will be engaged on contracts for the modernisation of pre-war Council houses and the construction of new Council dwellings.

The appointment will be for a period of approximately twelve months but may be extended for a longer period.

Applications, stating age, qualifications, experience, past and present appointments and the names of two referees, must be delivered to the undersigned not later than 19th OCTOBER, 1960.

E. J. BOWERS,
Clerk of the Council.

Council Offices,
Orchard-road,
Stevenage.

HALSTEAD
RURAL DISTRICT COUNCIL.

APPOINTMENT OF SURVEYOR'S ASSISTANT.

Applications are invited for the above appointment from suitably qualified Candidates who have had general experience in the work of an Engineer and Surveyor's Department, including building inspection and planning administration. In addition to the normal duties of the Department, the successful applicant will be required to act as Clerk of Works, supervising building operations in Council House development.

The salary will be in accordance with Grade A.P.T. I or II, according to qualifications and experience, and a travelling allowance will be payable in accordance with the scale for a 10 h.p. car.

The appointment is subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts, and termination by one month's notice on either side.

The Council are prepared to consider the provision of housing accommodation for the successful applicant.

Applications, stating age, experience and full particulars, together with the names and addresses of two referees, must be received by the undersigned not later than the 7th OCTOBER, 1960.

H. E. P. STOKES,
Clerk of the Council.

Council Offices,
Mount Hill,
Halstead,
Essex.

RHONDDA
BOROUGH COUNCIL.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited from suitably experienced persons for the post of ARCHITECTURAL ASSISTANT, at a salary in accordance with Grade A.P.T. I (at present £610 to £880 per annum).

The appointment will be terminable by one month's notice on either side and will be subject to the National Scheme of Conditions of Service. The successful candidate will be required to pass a medical examination and will contribute to the Council's Superannuation Fund.

Applications, on Forms to be obtained from Mr. C. Gingell, A.R.I.B.A., A.R.I.C.S., Borough Architect, Bronwydd, Porth, are to be submitted to the undersigned not later than SATURDAY, 15th OCTOBER, 1960.

E. D. WILDE,
Town Clerk.

Council Offices,
Pentre,
Rhondda.
3rd October, 1960.

GUILDFORD
BOROUGH.

Applications are invited for the appointment of an ASSISTANT ARCHITECT, commencing salary at a point within Grade A.P.T. III according to qualifications. Applicants should have passed the Intermediate Examination of the Royal Institute of British Architects and have had practical experience in general architectural work and housing.

Consideration will be given to the provision of housing accommodation if required.

Application, with names and addresses of two referees, must be sent to the Borough Engineer and Surveyor, Municipal Offices, High-street, Guildford, Surrey, by WEDNESDAY, the 26th of OCTOBER, 1960.

HERBERT C. WELLER,
Town Clerk.

HARROW
BOROUGH.

Applications are invited for the following appointment in the Department of the Borough Engineer and Surveyor :—

QUANTITY SURVEYING ASSISTANT. Salary : £815 per annum plus London "Weighting" (maximum of A.P.T. Grade I).

The Council is unable to provide housing accommodation but a contribution towards removal expenses will be considered.

The appointment will be subject to the Local Government Superannuation Acts ; and to the National Joint Council's Scheme of Conditions of Service.

Application forms, obtainable from me, should be returned not later than SATURDAY, 22nd OCTOBER, 1960.

DAVID PRITCHARD,
Town Clerk.

Town Clerk's Department,
92 Uxbridge-road,
Harrow Weald Lodge,
Harrow,
Middlesex.

AIR MINISTRY

Works Designs Branch requires in LONDON and PROVINCES ARCHITECTURAL ASSISTANTS with adequate training and drawing office experience, O.N.C. (Building) an advantage. Work includes site layouts, sketch plans, working drawings and details for variety of technical and domestic buildings in permanent and semi-permanent construction. Financial assistance and time off given for recognised courses of study. Promotion and pension prospects. 5-day week with 18 days' paid leave per year initially. Overseas tours for which special allowances granted.

Salary : in LONDON ranges from £805 (age 25) to £980 p.a., somewhat lower in PROVINCES. Commencing salary dependent on age, qualifications and experience. Applicants, who must be natural born British subjects, should write (quoting Order No. Kings Cross 897) to Air Ministry, W.G.d. Lacon House, Theobalds-road, London, W.C.1, or to any Employment Exchange, giving age, details of training, qualifications, full particulars of former posts held and copies of any testimonials. Candidates selected will normally be interviewed in London and certain expenses reimbursed.

KEIGHLEY
BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following positions :

ASSISTANT ARCHITECT, Grade A.P.T. V, Salary Scale £1,220-£1,375. Applicants must be Associate members of the R.I.B.A., possess good experience in architectural design and building work under construction, and be capable of controlling contract works in their entirety. Quantity surveying experience an advantage.

ARCHITECTURAL ASSISTANT (Temporary), Special Grade, Salary Scale £785-£1,070. Applicants must have had good experience in architectural design and building work under construction. Other things being equal, preference will be given to applicants who have passed the examination for Associateship of the R.I.B.A. Commencing salary to be in accordance with experience.

Applications to be made upon the prescribed form to be obtained from the undersigned, to whom same must be returned, accompanied by copies only of two recent testimonials, not later than first post, TUESDAY, 18th OCTOBER, 1960.

E. G. FELGATE, A.R.I.B.A.,
Borough Architect.

Borough Architect's Department,
College-street,
Keighley.

SOLIHULL
BOROUGH.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited from Architects with suitable qualifications and experience for the undermentioned APPOINTMENTS :—

(a) ASSISTANT ARCHITECT, A.P.T. Grade IV (£1,140-£1,310 per annum).

(b) ASSISTANT ARCHITECT, A.P.T. Special (£840-£1,145 per annum).

(c) ASSISTANT ARCHITECT, A.P.T. Grade I-II (£645-£960 per annum).

The Borough, which has a population of approximately 90,000 and which is still expanding rapidly, is an Excepted District for education and has been recommended for County Borough status by the Local Government Commission for England. There is a considerable programme of varied capital works to be undertaken in the very near future.

The appointments will be subject to satisfactory medical reports, the Local Government Superannuation Acts, the National Scheme of Conditions of Service and to one month's notice in writing on either side.

In appropriate cases the Council will assist in the provision of housing accommodation and half removal expenses will be paid.

Applications, giving full particulars as to age, qualifications and past and present experience, together with the names and addresses of two referees should be submitted to the Borough Surveyor, 90 Station-road, Solihull, not later than FRIDAY, 21st OCTOBER, 1960.

W. MAURICE MELL,
Town Clerk.

The Council House,
Solihull,
Warwickshire.
3rd October, 1960.

LONDON
COUNTY COUNCIL.

DRAUGHTSMAN required to prepare drawings for alteration to improvement of Council buildings. Knowledge of building construction essential. Pension fund. Staff restaurant.

Write for application form to Chief Engineer (GS/B/2596/10), London County Council, County Hall, S.E.1.

WALTHAMSTOW
BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Walthamstow is a municipal borough within the County of Essex, population 113,000, rateable value £1,747,737. It is a progressive authority and there is a large programme of interesting architectural and redevelopment schemes to be undertaken.

Applications are invited for the undermentioned vacancies on the permanent staff of the Borough Architect :—

(a) ONE SENIOR ASSISTANT ARCHITECT, £1,185-£1,355 per annum inclusive of London Weighting.

*(b) TWO ARCHITECTURAL ASSISTANTS, £645-£960 per annum.

*Plus an additional allowance of £25 or £40 depending upon age.

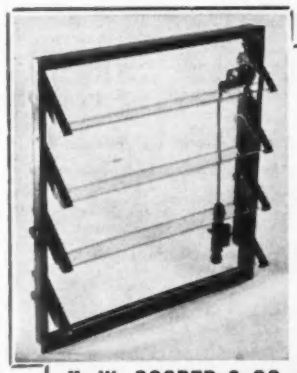
Applicants for post (a) must be professionally qualified and have had extensive experience, and applicants for posts (b) should have the appropriate qualifications.

The Council will make 100 per cent. advances to successful applicants for house purchase within the borough or in adjoining boroughs.

Application forms, obtainable from the Borough Architect, Town Hall, Walthamstow, London, E.17, must be returned to the undersigned by NOON on FRIDAY, 21st OCTOBER, 1960.

G. A. BLAKELEY,
Town Clerk.

Town Hall,
Walthamstow, E.17.
26th September, 1960.



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HUYTON WITH ROBY
URBAN DISTRICT COUNCIL.

ASSISTANT BUILDING INSPECTOR required. Salary A.P.T. II (£765-£880 p.a.). N.J.C. conditions and car allowance (10 h.p. or 1,199 c.c.). Housing accommodation available if necessary. Candidates must hold the Building Inspector's Certificate of the Institution of Municipal Engineers or the Royal Institute of British Architects.

Applications, giving the names of two referees, must be received by the Engineer and Surveyor, Council Offices, Derby-road, Huyton, Lancs, by 22nd OCTOBER, 1960.

Canvassing disqualifies.

D. WILLGOOSE,
Clerk of the Council.

SWINDON
BOROUGH.

ASSISTANT BUILDING INSPECTOR.

Applications are invited for the above appointment in the Borough Surveyor and Planning Officer's Department at a salary in accordance with A.P.T. Grade I (£645-£815 per annum).

The minimum qualification required is the Higher National Certificate in Building or the Building Inspector's Certificate of the Institution of Municipal Engineers, and applicants should have served an apprenticeship either as a carpenter and joiner or as a bricklayer.

Housing Accommodation offered to married candidates from other areas.

Assistance with removal expenses may be given.

Only a skeleton staff is on duty on Saturday mornings.

Applications on forms to be obtained from the Town Clerk, Civic Offices, Swindon, must be returned by 27th OCTOBER, 1960.

BURTON UPON TRENT
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited from suitably qualified persons for the appointment of an ASSISTANT QUANTITY SURVEYOR and an ASSISTANT ARCHITECT each in the Special Grade (£840 to £1,145) of National Scheme of Conditions of Service. Salaries in accordance with qualifications and experience.

Housing accommodation, at a rent, will be provided for the successful candidates if required.

Applications giving age, qualifications, full details of experience and names of two referees, to the Borough Architect, Town Hall, Burton upon Trent, by 25th OCTOBER, 1960.

H. T. MEADES,
Town Clerk.

Town Hall,
Burton upon Trent.
September, 1960.

BARRY
BOROUGH.

APPOINTMENT OF ARCHITECTURAL AND BUILDING ASSISTANT.

Applications invited for the above permanent appointment. Salary in accordance with National Scales of Salaries for Local Authorities A.P.T. and C. Services up to Special Scale £840-£1,145 for suitably qualified applicants (R.I.B.A. or R.I.C.S.). Housing accommodation will be considered if required. This appointment offers the possibility of interesting and varied work with a progressive seaside Authority.

Applications to Borough Engineer, Town Hall, Barry, by SATURDAY, 29th OCTOBER, 1960.

J. CLEMENTS COLLEY,
Town Clerk.

Town Hall,
Barry.

CWMBRAN
DEVELOPMENT CORPORATION.

QUANTITY SURVEYING ASSISTANTS.

Vacancies exist in the Quantity Surveying Section of the Architect's Department for a TRAINEE and a SURVEYOR'S JUNIOR ASSISTANT.

Applicants should hold G.C.E. in five subjects including English and Maths.; commencing salary will depend on age and experience (if any) in the Salary Range of £210-£595.

Applications stating age, experience, details of present and former employment (together with applicable salaries) and the names and addresses of two referees must reach the undersigned by first post on MONDAY, 24th OCTOBER.

J. C. P. WEST, A.R.I.B.A., M.T.P.I.,
Chief Architect.

Victoria-street,
Cwmbran,
Mon.

WEST SUFFOLK
COUNTY COUNCIL.

CLERK OF WORKS, wages £16 per week, required to supervise the erection of a Police Station and Courthouse at Haverhill.

Application form obtainable from the County Architect, Westgate House, Bury St. Edmunds.

OVERSEAS PUBLIC APPOINTMENTS

THE GOVERNMENT OF NORTHERN NIGERIA
requires

EDUCATION OFFICERS (Technical)
on favourable contract terms.

QUALIFICATIONS:

1. Either Higher National Diploma in Electrical Engineering, or other qualifications of similar standing.
2. Or Higher National Diploma in Building, or other qualifications of similar standing.
3. Or Intermediate examination of the Royal Institution of Chartered Surveyors, and be studying for the Final examination.

In all cases a Technical Teaching Certificate, and teaching experience in a Technical College or a Technical Institute will be an advantage.

DUTIES:

The candidates will be required for duties at the Technical Institute and may be called upon to serve elsewhere in Northern Nigeria. They will be required to teach in Senior and Junior Departments of the Technical Institute as well as assisting in evening work. The courses in operation are engineering subjects leading to Overseas Ordinary Certificates. All courses are fully residential. The officers appointed will be required to perform any other duties as directed by the Ministry including those Institutional in character as for a Boarding Establishment.

EMOLUMENTS:

1. Salary depending on qualifications and experience in the range of £1152—£2046 per annum.
2. Children's Allowance of £120 for one child, £216 for two and £288 for three children eligible.
3. Clothing Allowance of £45 on first appointment.
4. Resettlement grant of £37 10*s.* 0*d.* for each three months service, inclusive of earned leave payable on satisfactory completion of contract.
5. First-class fares for officer and wife on appointment and on leave, and assistance towards cost of children's passages.

LEAVE:

Generous home leave on full pay.

Applicants should write to:—

The Recruitment Secretary (Overseas),
Northern Region Recruiting Agency,
Nigeria House,
9 Northumberland Avenue,
LONDON, W.C.2

or telephone TRAfalgar 1244. Extension 145

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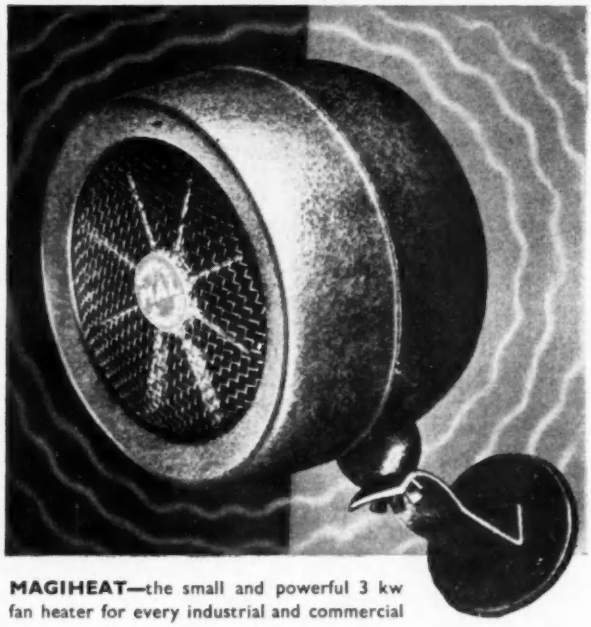

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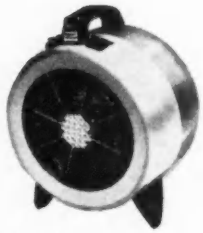

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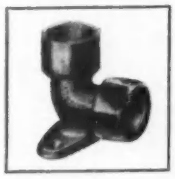

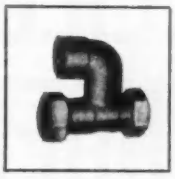

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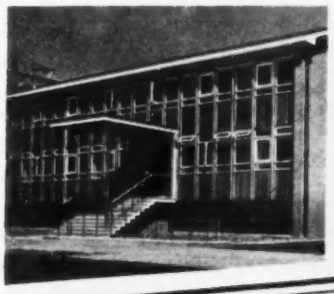

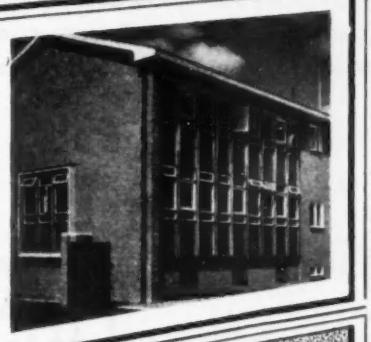

Architect: J. Innes Elliott, Esq., B.Arch., A.R.I.B.A.
Senior Architect: G. B. Vint, Esq., A.R.I.B.A.
Executive Architect: C. A. Legerton, Esq., A.R.I.B.A.
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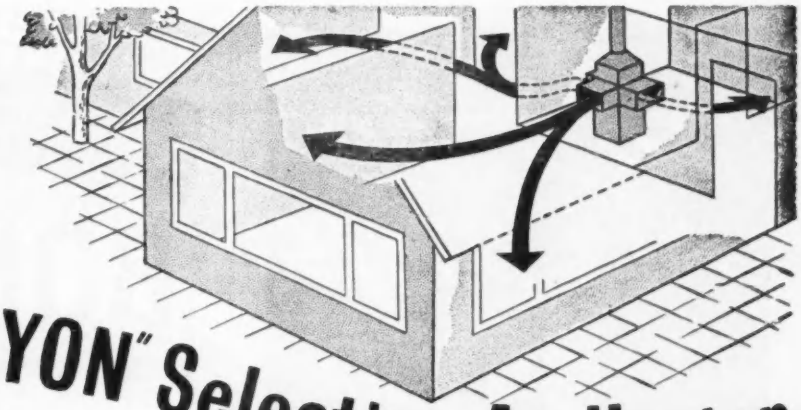

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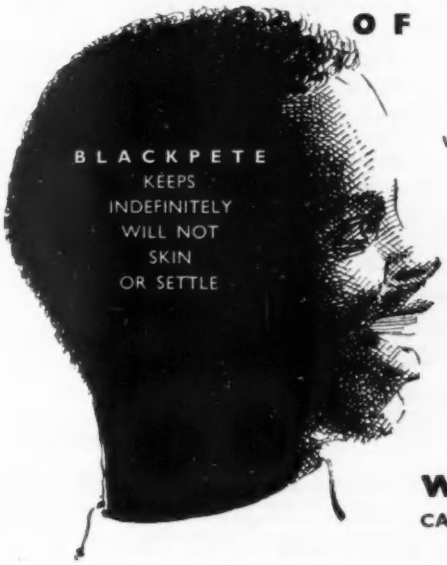

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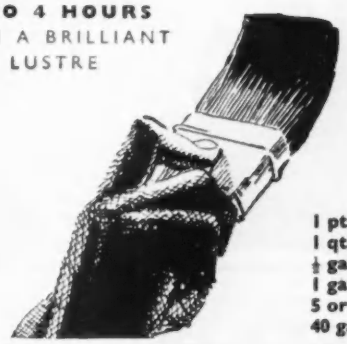

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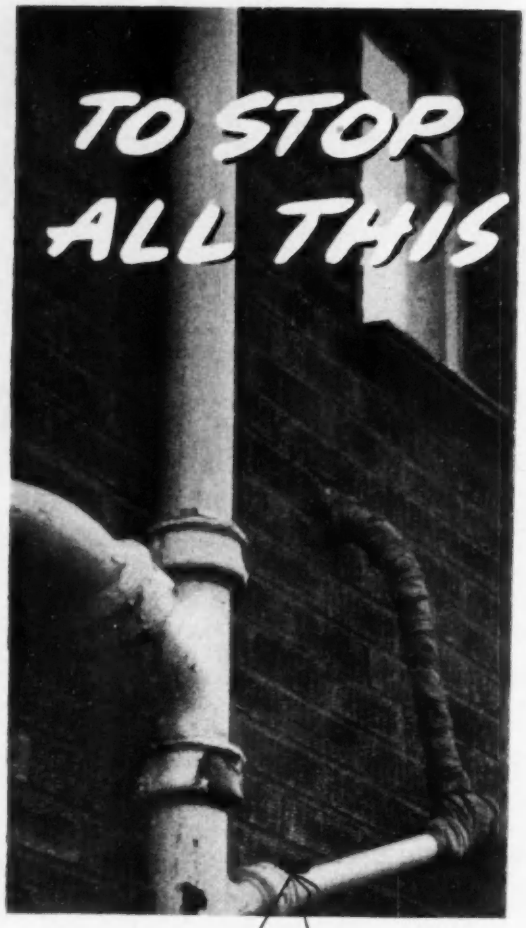

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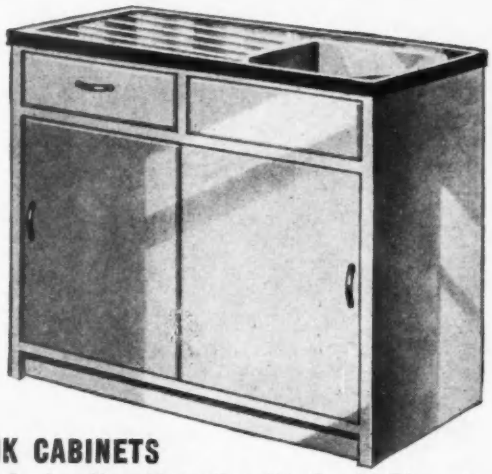

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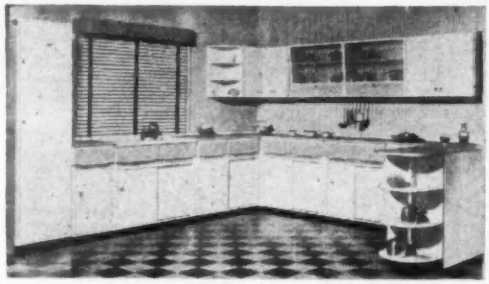

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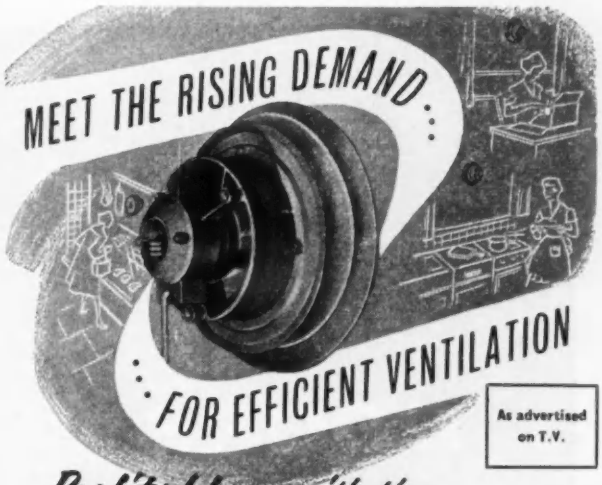

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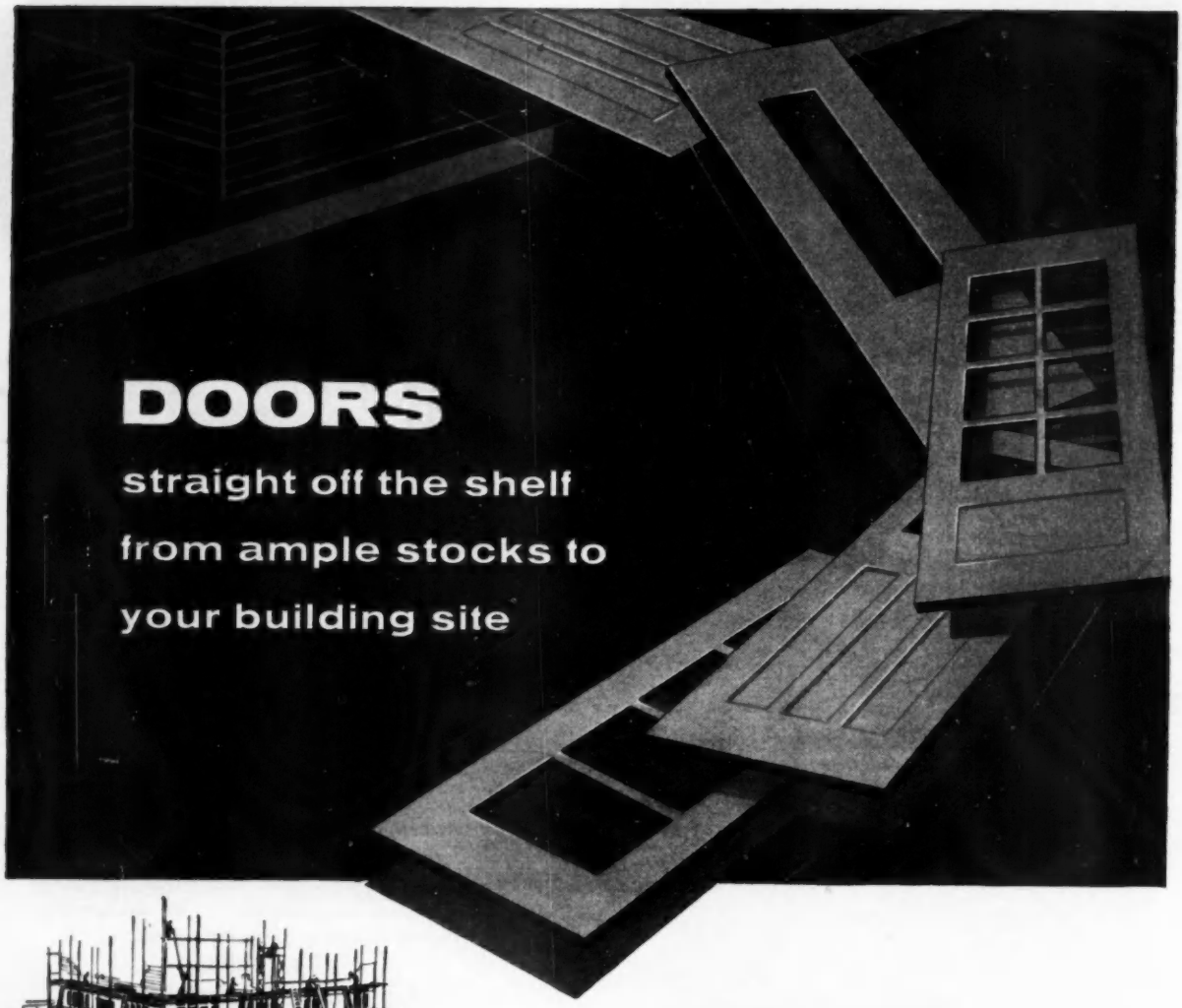

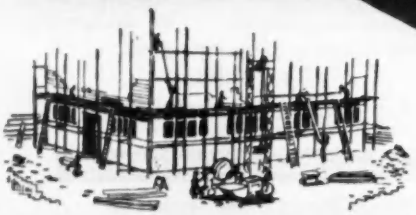

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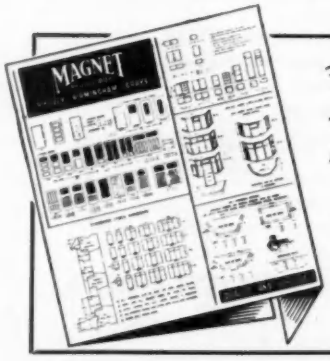

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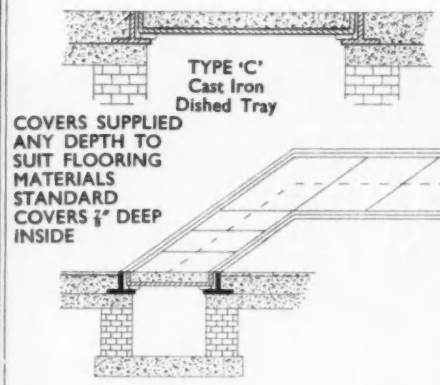

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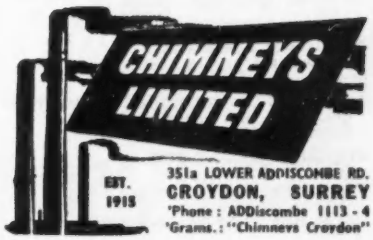

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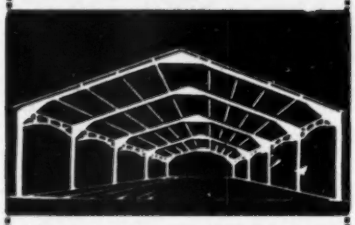

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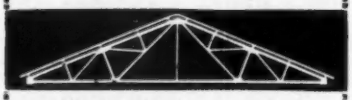

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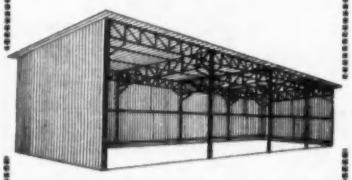

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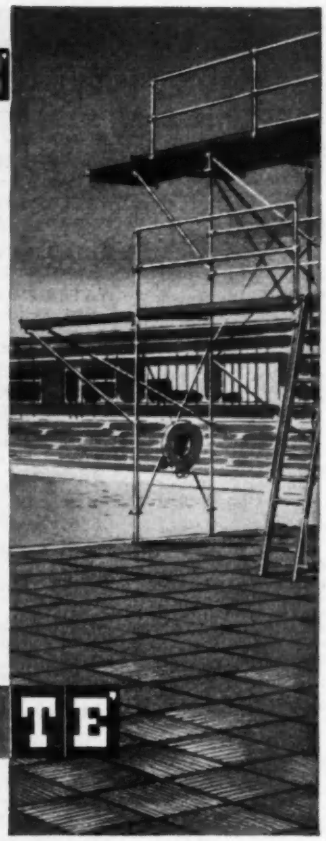

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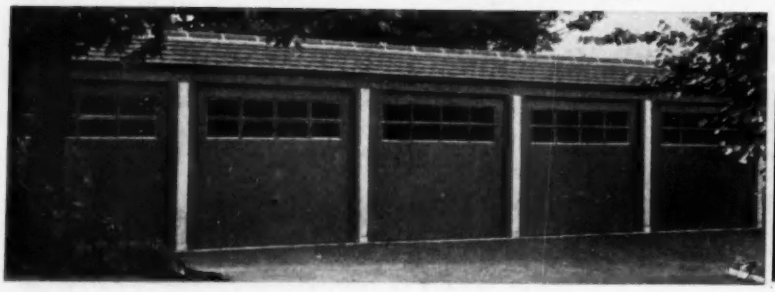

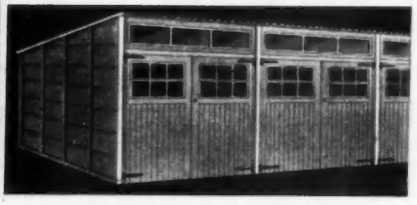

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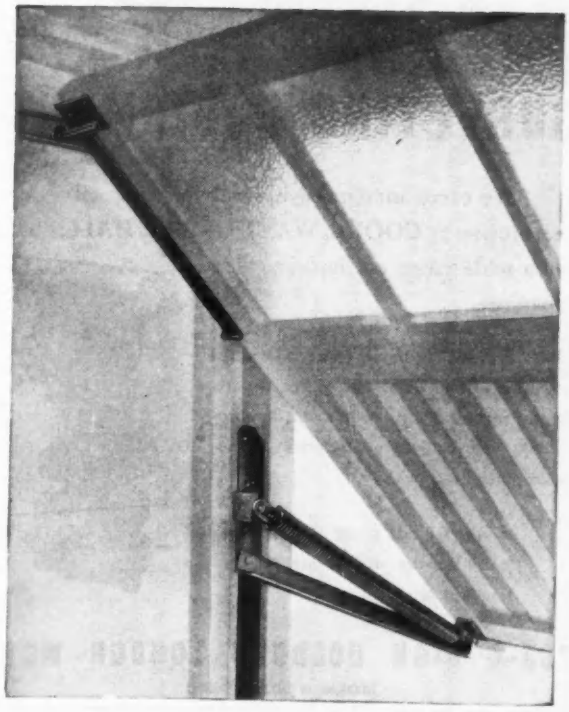

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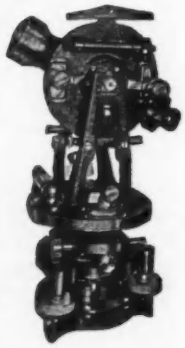

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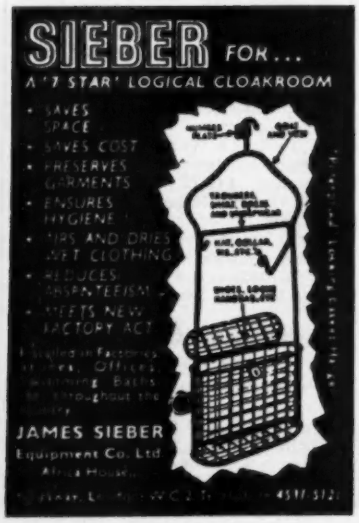

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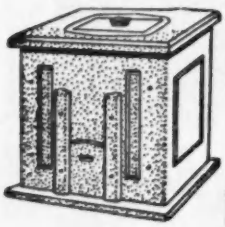

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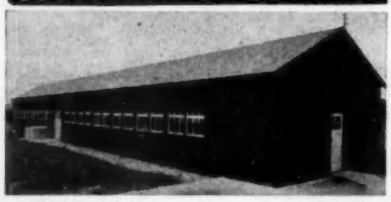

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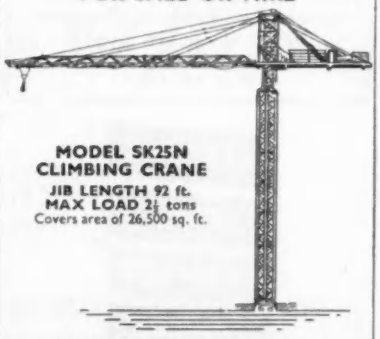

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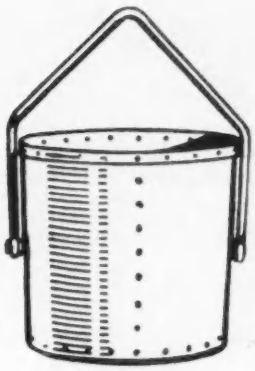

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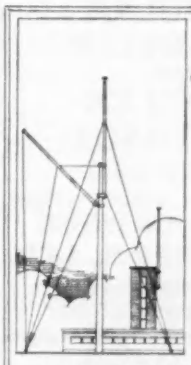

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1. **ASSISTANT ARCHITECT** for responsible work on secondary and primary schools. Salary grade £1,300/£1,600 p.a.
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3. **ARCHITECTURAL ASSISTANT** with good general experience. Knowledge of surveying and levelling an advantage. Salary £800/£900.

Applications in writing, stating experience, to:—

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(Telephone FOU. 1251)

ARCHITECTS are invited to apply for post as PARTNER in newly-established practice, N.W. London. Must be competent and have wide experience, particularly in private development. Position offers considerable scope to qualified assistant keen but unable to develop own practice. No capital required.—Apply, giving full particulars, from Box 1686, "The Builder."

ASSISTANT ARCHITECT Required for busy office, South Yorks. Salary £1,100 minimum, plus pension and bonus. House provided.—Box 1644, "The Builder."

ARCHITECTS of differing grades Required for a variety of interesting work, particularly industrial. —Please apply: A. M. GEAR & ASSOCIATES, 12 Manchester-square, London, W.1. Telephone: Hunter 0331.

ASSISTANT ARCHITECT Required for new Chelmsford branch office of established London Architects. Scope for initiative and responsibility on varied and interesting work. Salary up to £1,000.—Apply, stating age, experience and qualifications, to GUNTON & GUNTON, 87 High-street, Chelmsford, Essex.

QUALIFIED ASSISTANT ARCHITECT for interesting and varied work in and around Midlands. Salary according to experience and ability. 40-hour week, staff pension scheme. Intermediate standard also required to assist on similar projects.—HELLBERG & HARRIS, F./F.R.I.B.A., 13 Queen Victoria-road, Coventry.

ASSISTANT ARCHITECTS and **ASSISTANTS** Required, all levels.—GEENS & CROSS, Metropole Chambers, Lansdowne, Bournemouth.

ASSISTANT ARCHITECTS and **ASSISTANTS** Required, all levels.—RONALD SIME, Metropole Chambers, Lansdowne, Bournemouth.

MEDWAY TIMBER BUILDINGS Require Qualified ARCHITECTS familiar with modular methods of prefabrication to lead design team. Interesting work on wide variety of projects using existing systems with some development design. Modern outlook, top-grade planning ability and sound knowledge of joinery detailing are all essential requirements. —Send full details of training, qualifications, experience and salary required, to Personnel Manager, MEDWAY BUILDINGS & SUPPLIES, Ltd., Phoenix Wharf, Rochester, Kent.

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A Senior Architect is Required in the Development Section of a Building Company in the West End of London.

Applicants must have had experience in the Design, Layout and Development of Housing and Flat Schemes and be able to negotiate with public and other authorities.

Administrative as well as technical ability will be an advantage. The position is permanent and progressive and a superannuation scheme is available.

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SENIOR ARCHITECTURAL ASSISTANT Required in progressive office in Croydon. Salary by arrangement. Good opportunity for a man with initiative. —Write, full particulars, to GEORGE LOWE & PARTNER, 79 George-street, Croydon 3608/9.

BOOTH, LEDEBOER AND PINCKHEARD Require ASSISTANTS in the salary range £750-£1,250.—Apply 17-20 Mason's Yard, Duke-street, St. James's, S.W.1. Tel.: TRAfalgar 1866.

ARCHITECTURAL ASSISTANT Required, able to work on own initiative, varied practice, small office, opportunity for advancement.—Write or 'phone: NICHOLSON & RUSHTON, 2 New Square, Lincoln's Inn, W.C.2. HOLborn 2095.

ARCHITECTURAL ASSISTANTS Required for interesting work on new Colleges. One Senior and one Junior. Good salaries according to ability.—H. V. ASHLEY & WINTON NEWMAN. (HOLborn 2804.)

ARCHITECTURAL ASSISTANT Required, with at least two years' office experience.—Apply in writing to THOMAS MITCHELL & PARTNERS, 20 Bedford-square, London, W.C.1.

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require Architectural/Technical Assistant of intermediate standard for interesting work throughout the country. Must be first class Draughtsman with sound knowledge of all trades, capable of working with minimum supervision.

Usual Welfare, Pension and Insurance Schemes.

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A progressive and expanding building and civil engineering organisation requires the services of an

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Applicants should be experienced in the design and execution of working drawings in connection with Housing and Flat Development Schemes. Permanent and progressive position. Pension and Luncheon Voucher Schemes. Salary according to ability and experience.

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ASSISTANT
to
ARCHITECT AND CONTRACTS MANAGER

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C. & J. CLARK LIMITED,
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Candidates should be studying for R.I.B.A. examinations, should be approaching Intermediate Standard and should have a successful record to date. We offer good all-round industrial and domestic experience, and one day a week would be allowed off for part-time-day-release classes.

Starting salary range £750-£950.

Help towards removal expenses.

Applications should be sent to the Personnel Officer, C. & J. Clark Limited, Street, Somerset, marked 'Private' and quoting reference number MSM/19/9.

ARCHITECTURAL ASSISTANT (Intermediate) Required in private practice near Chipping Norton, Oxon., exceptionally varied work, capable of surveys, working drawings, details, specifications. Car driver. Office experience, salary required, status. Accommodation might be arranged.—Box 1618, "The Builder."

WANTED: ARCHITECTURAL ASSISTANT, about Intermediate standard, in progressive Provincial office.—Write stating age and salary required to HENRY SPENCER & PARTNERS, L/A.R.I.B.A., Peterborough.

RESPONSIBLE ASSISTANTS for Colleges, Hostels, Schools, Offices. Salary according to ability.—Apply CHARLES PIKE & PARTNERS, 14 Lincoln's Inn Fields, W.C.2, or 'phone HOL 3532.

A **COMPETENT ASSISTANT** is Required in the speculative housing department of SIR LINDSAY PARKINSON & Co., Ltd., 6 Lambeth-road, S.E.1. He will be required to produce drawings with the minimum of supervision and a flair for design would be appreciated.—Reply in writing to the Chief Architect, giving details of experience, age and salary required.

ARCHITECTS Require ASSISTANT, Intermediate or Final R.I.B.A. standard able to work with minimum amount of supervision. Salary by arrangement, luncheon vouchers.—CECIL E. M. FILLMORE, F.R.I.B.A., 20 Waterloo-street, Birmingham, 2.

SENIOR ARCHITECTURAL ASSISTANTS, up to £1,400, Required by design contractor in Manchester area, engaged on housing, commercial and industrial schemes. Superannuation and canteen available. Applicants should be qualified, with sound experience. Also vacancies for Inter. ASSISTANTS. —Box 1643, "The Builder."

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INTERMEDIATE OR FINALS STANDARD

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Interesting and varied work. Five-day week, bonus etc. Appointments permanent and superannuable.

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ARCHITECT'S DEPARTMENT, MANCHESTER

have vacancies for

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to work on a variety of interesting commercial and industrial projects.

Five day week. 3 weeks Holiday. Pension scheme.

Commencing salary up to £1,300 according to experience and qualifications.

Apply in writing with details of age, qualifications and experience to:—

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ARCHITECTURAL ASSISTANTS AND DRAUGHTSMEN

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VACANCIES exist in large provincial practice with offices in Peterborough and Spalding for the following: (1) ARCHITECTURAL ASSISTANT, qualified, with few years' office experience. Salary up to £1,150 to suitable applicant. (2) ARCHITECTURAL ASSISTANT, qualified, having recently left college, office experience not essential. Salary up to £900. (3) JUNIOR ASSISTANTS, Intermediate/Final standard with 2/3 years' office experience. Salary up to £800. The work is of a varied and interesting nature, pension scheme in operation, every third Saturday morning free. Assistance will be given with accommodation in appropriate cases. Apply in writing with full details to:—RUDDLE & WILKINSON, F/L/A.R.I.B.A., Long Causeway Chambers, Peterborough.

JUNIOR TECHNICAL ASSISTANT Required to assist in the preparation of Shopfitting Estimates and Specifications, including clearance of Specialist Trades and checking Accounts, etc. Compulsory Superannuation Scheme, five-day week.—Apply: R. C. Steel, A.R.I.B.A., Chief Architect, C.W.S., Ltd., 99 Leman-street, London, E.1.

APPLICATIONS are invited for the post of ARCHITECTURAL ASSISTANT, inter. R.I.B.A. standard, in busy office engaged on varied work: 5-day week. Salary commensurate with experience and ability.—QUICK & LEE, Chartered Architects, 11 Waterloo-place, Leamington Spa, Warwickshire.

ARCHITECTURAL ASSISTANTS Required, preferably with ability to run contracts mainly commercial work. 5-day week.—Apply, E. Davie, F.R.I.B.A., A.M.T.P.I., Chief Staff Architect, HILLIER PARKER MAY & ROWDEN, 77 Grosvenor-street, W.1. (Mayfair 7666.)

SENIOR ARCHITECTURAL ASSISTANT Required in busy West End office. Good salary and prospects for keen and energetic young man.—Apply, in writing, to MAURICE SANDERS, F.R.I.B.A., 24 Harley-street, London, W.1.

ARCHITECTURAL ASSISTANT Required for Development office in the Wembley area. Must be experienced in preparation of detailed drawings for housing estates, flats, office buildings, etc.—Apply, stating experience and salary required, to Box 1747, "The Builder."

ASSISTANTS Required urgently in expanding Architects' practice. Plenty of scope with opportunities of varied site experience. Initiative encouraged.—Write giving particulars and experience and salary required.—Box 950, "The Builder."

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STRUCTURAL Steelwork Company in London area Requires Senior and Junior DESIGNERS and an ESTIMATOR. Five-day week, bonus and pension scheme. Canteen facilities available.—Write stating experience and salary required to Box 1612, "The Builder."

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SHOPFITTING DRAUGHTSMAN Required. Practical and design ability. Permanency and good salary for suitable applicant.—Apply: O. PETERSON, Ltd., 51 Stamford-hill, N.16.

ARCHITECTURAL DRAUGHTSMAN (Junior) Required in Property Department of multiple retailers with London Headquarters. Applications with details of training, age and experience, etc., to Box No. 209, North Row, Marble Arch, London, W.1.

DRAUGHTSMEN and JUNIOR DRAUGHTSMEN Required for specialised Contractors' office, South London area.—Write, stating age, experience, salary, etc., Box 1714, "The Builder."

ARCHITECTURAL DRAUGHTSMAN Required by large Building Company in Cornwall. Applicants should have at least two years' experience as a senior.—Apply, stating experience, age and salary required, to Box 1713, "The Builder."

THE 'ARCHITECTS' JOURNAL' Requires a good DRAUGHTSMAN for the preparation of Information Sheets and Working Details. Some knowledge of line block reproduction desirable and an interest in the compilation of technical data essential.—Write to the Editor (Information Sheets), 9 Queen Anne's-gate, S.W.1, stating age, architectural training and experience.

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Sir Alexander Gibb & Partners,
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required for the London Office of a Structural Waterproofing and Flooring Contractor, initially to assist with the progressing of tenders, technical consultation with clients, and site liaison. Good prospects for advancement in an expanding Company.

Applicants, preferably 25-35 years of age, must have sound building construction background, with some knowledge of estimating and quantity surveying.

Please write stating age, experience and salary required, quoting ref. 260 to:

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SANITARY ENGINEERING DESIGNER-DRAUGHTSMAN (Senior Grade) Required for interesting work on a variety of U.K. and overseas building projects, working-up schemes for drainage, plumbing and cold water services in collaboration with architectural staff. Good working conditions, five-day week, three weeks' paid leave a year, luncheon vouchers. Salaries according to age and experience.—Please apply in writing to NORMAN & DAWBARN, Architects and Consulting Engineers, 7 Portland-place, London, W.1.

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Food Manufacturers and Distributors, Require a JUNIOR SHOP FITTING DRAUGHTSMAN, age 19/20, for their Shop Planning Department at Blackfriars. Commencing salary will depend on age, qualifications and experience. Permanent, progressive and pensionable position.

Write, giving full details of education and experience, to Personnel Department, J. SAINSBURY, Ltd., Stamford House, Stamford-street, London, S.E.1.

DRAUGHTSMAN ESTIMATOR for small shop-fitting and building office. Good salary to right man of experience. Age 30-40.—Write Box 1765, "The Builder."

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If you have H.N.C. in Building, and a training as an Architectural Draughtsman in contemporary style construction and experience on Industrial work, Office Blocks, etc., we invite you to get in touch with us to discuss terms and conditions for an interesting vacancy. Age range 26–38 years.

Wilson LOVATT & Sons Ltd.,
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APPLEBY-FRODINGHAM STEEL COMPANY

require the services of a

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The work is of varied and interesting character embracing all stages of designing and detailing of offices, laboratory and industrial buildings connected with major development projects.

The position would be permanent for a suitable applicant and a pension scheme is in operation.

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QUANTITY SURVEYORS

ASSISTANT QUANTITY SURVEYOR of Intermediate to Final standard, capable of Taking-off and dealing with Final Accounts. Good opportunity for widening experience. Professional office, Westminster. Five-day week, luncheon vouchers and pension scheme.—Write stating experience and salary required, Box 1538, "The Builder."

REQUIRED for permanent position in Yorkshire. QUANTITY SURVEYORS' ASSISTANT, fully experienced in Taking-off in all trades and measuring variation on site and preparing interim valuations. Excellent prospects to the right man.—Please reply, giving full particulars age, salary, to Box 1555, "The Builder."

WANTED: Experienced QUANTITY SURVEYOR for Contractor's Head Office in Cumberland. Must have sound knowledge of Site Measuring, Valuations, Final Accounts, etc.—Apply stating age, experience and salary required to Box 1622, "The Builder."

ASSISTANT QUANTITY SURVEYOR Required. Capable of Taking-off and dealing with Accounts. Large Midlands office. 5-day week, pension scheme. —Reply, stating age, experience and salary required, Box 1663, "The Builder."

ASSISTANT QUANTITY SURVEYOR Required by S.W.16 London Building Contractors to measure Sub-Contractor's Accounts, Site Measurements, Bonus Surveying. State age, experience. Salary by arrangement.—Box 1721, "The Builder."

SENIOR ASSISTANT, young (preferably qualified) Required in small but busy Quantity Surveyors' office in Hereford for preparation of Bills and Final Accounts. Permanent position, pension scheme and ample scope for ultimate advancement to keen young man.—Write, in confidence, stating age, experience and salary required, to Box 1715, "The Builder."

AUSTRALIA. Vacancies for TAKERS-OFF, see advert under heading "Overseas Appointments."

SENIOR ASSISTANT (preferably A.R.I.C.S.) Required in small professional office situated N.W. London. Good opportunity in progressive firm with interesting and varied work. Commencing salary range £1,000-£1,300. Applicants must be competent, hard-working and willing to take responsibility.—Apply, giving age and experience, to Box 1684, "The Builder."

ASSISTANT QUANTITY SURVEYOR

the rapidly expanding Building and Civil Engineering Contractors are looking for a man who expects to go ahead. The following qualifications are required for this responsible and interesting position.

(1) Age 22-32 years.

(2) Education: at least O.N.C. or equivalent.

(3) Experience: Some professional experience preferred but not essential. Capable of measuring in all trades. Knowledge of estimating an advantage. Car Driver.

(4) Salary: £750-£1,000 p.a. according to age and experience.

Box No. 1824, "The Builder"

MESSRS. ANDREW ROBERTS & PARTNERS, Chartered Quantity Surveyors, have opened a branch office at 44-46 Bridge-street, Peterborough. (Telephone 67905.)

ASSISTANT QUANTITY SURVEYORS Required to prepare Bills for (a) Standard low-cost housing units. (b) Substructures and Siteworks for large housing schemes. Good working conditions, five-day week, pension scheme and expanding opportunities.—Apply, with details, to Chief Estimator, GREGORY HOUSING, Ltd., 21 Farncombe-road, Worthing.

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ENERGETIC YOUNG SURVEYOR (A.R.I.C.S.), keen to acquire responsibility and experience Required as ASSISTANT to small expanding firm of Chartered Quantity Surveyors in Holborn. Car owner preferred. Work will cover all aspects of the Profession according to capability and a good salary will be offered to the right man.—Brief history to date, to Box 1784, "The Builder."

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We are seeking two Assistant Quantity Surveyors who wish to build up to positions of responsibility. The work is primarily the agreement of valuations and assistance in the preparation of final accounts on sites in the London area.

We have also a vacancy for a young Surveyor who wishes to train and gain experience in competive tendering.

To the right men there is every opportunity for advancement in an interesting career—potential for development. Generous profit sharing, savings and superannuation schemes are in operation.

Write fully stating age, qualifications, detailed experience and present salary to **Personnel Manager, Wates Limited, 1258/60 London Road, Norbury, S.W.16**

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required for measuring variations, interim certificates, and preparing final accounts. Applicants should be keen young men who are anxious to progress and be capable of working with the minimum of supervision.

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Replies, stating age, brief particulars of experience and salary required, should be addressed to the :

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(1) Age 22-32 years.

(2) Education: at least O.N.C. or equivalent.

(3) Experience: Some professional experience preferred but not essential. Capable of measuring in all trades. Knowledge of estimating an advantage. Car Driver.

(4) Salary: £750 to £1000 offered according to age and experience.

Please send applications to

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for Air Ministry Contract in Huntingdonshire. Considerable knowledge of W.D. Schedule is essential. Write, stating age, experience and salary required to :—

The Secretary,
ROBERT MARRIOTT LIMITED.
Midland Works,
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CO-OPERATIVE WHOLESALE SOCIETY LTD.
ARCHITECT'S DEPARTMENT, MANCHESTER,

have vacancies for

QUANTITY SURVEYORS

SENIOR-TAKERS-OFF: Membership of R.I.C.S. desirable but not essential.

ASSISTANT TAKERS-OFF: With some experience and capable of working with a minimum of supervision.

CHIEF WORKER-UP: Experience in preparation of approximate estimates an advantage. Five day week. Pension scheme.

Applications, stating training, age, experience, qualifications and salary required to G. S. Hay, F.R.I.B.A., Chief Architect, Co-operative Wholesale Society Ltd., 1 Balloon Street, Manchester 4.

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to cope with the ever increasing volume of work on multistorey office blocks, shops, flats and industrial and housing estate developments. Bonus, non-contributory pension scheme and pleasant out-of-town offices which can be reached in civilised comfort. Apply in writing giving full particulars to the:

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for interesting work in the Essex and North London areas, willing to accept responsibility and use own initiative.

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MSL *have been retained to advise on the appointment of a*

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for a large firm of plumbing, heating and ventilating contractors. Knowledge of this specialised field is not essential, but candidates must be professionally qualified Quantity Surveyors with wide experience in the building industry. Preferred age 35 to 45.

The man appointed will be based at the company's Head Office in the Midlands and will report to the Managing Director. He will join the Board after a proving period of up to 3 years. Commencing salary in the region of £2,000, according to experience, plus car and pension scheme. Please send brief details in confidence quoting reference Y.2678 to R.W.H. Lubbock.

MANAGEMENT SELECTION LIMITED,
17 Stratton Street, London, W.1.

In no circumstances will a candidate's identity be disclosed to our client unless he gives permission after a confidential interview at which he will be given full details of the appointment.

SHEPHERD

PLANNING SURVEYOR

Applications are invited from young men, preferably under 35 years of age who have had sound experience of Quantity Surveying and are interested in the application of modern planning and production techniques in the building industry.

The successful applicant will be on the permanent staff of our Richmond (Yorks.) Area Office which is responsible for contracts throughout a wide area in the North Riding of Yorkshire and Co. Durham.

Some travelling will be involved and a private car will be provided.

A good starting salary will be offered together with annual bonus and non-contributory pension and life assurance. Excellent staff conditions include a five day week and three weeks annual holiday. Assistance with housing will be available if required.

Written applications stating age, full details of education and experience should be addressed for the personal attention of:

W. E. Marshall, A.I.O.B.,
Area General Manager,
F. SHEPHERD & SON LTD.,
Building and Civil Engineering Contractors
Lion House, Pottergate,
Richmond.

Cadbury's **require**

A QUANTITY SURVEYOR AND ESTIMATOR

Experience of industrial work, site measurement and settlement of final accounts desirable
Five day week, attractive working conditions. Pension scheme.
Housing accommodation will be provided.

Applications giving age, qualifications, experience and salary required should be addressed to:—

Chief Architect,
CADBURY BROTHERS LTD.,
Bournville, Birmingham.

Quantity Surveyors

required by London contractors for varying types of contracts. Progressive positions with good salaries. Pension scheme. Apply in writing stating age, experience, and salary required.

Box No. 1718, "The Builder"

A QUALIFIED QUANTITY SURVEYOR is Required by a medium/large Company of heating and ventilating engineers to develop their estimating and pricing section. This is a good opportunity for a trained man to specialise and develop in a rapidly expanding Company. Attractive salary with superannuation.—Apply, Box 1789, "The Builder." Letters marked "confidential."

SITE QUANTITY SURVEYOR for long-term contract at Newport, Mon. Required by firm of Chartered Quantity Surveyors. Rented accommodation available.—Apply, stating age, experience and salary required, to Box 1815, "The Builder."

TAKER-OFF/MEASURING SURVEYOR Required for large civil engineering contract on South Coast near Kent/Sussex border.—Apply, stating age, experience and salary required, to Box 1816, "The Builder."

EXPERIENCED MEASURING SURVEYOR Required by Chartered Quantity Surveyors for building and civil engineering contract at Scunthorpe.—Apply, stating age, experience and salary required, to Box 1817, "The Builder."

SURVEYORS

MEASURING SURVEYOR Required in South London office, capable of working up to and including final accounts.—Write, stating age, experience and salary required, to Box 1551, "The Builder."

SURVEYOR/ESTIMATOR Required by the BRISTOL STONE & CONCRETE CO., Ltd. Must be able to take-off quantities of Cast Stone, Precast Concrete Products and precast floors and roof beams from drawings. Salary is dependent on experience and qualifications. The works are situated in a country district.—Applications to Managing Director, Holcombe, nr. Bath.

SUPERVISORS/SURVEYORS Required by progressive Building Contracting Company, Weybridge. Not more than 35 years of age. Excellent opportunities to men with initiative.—Full particulars to Box 1515, "The Builder."

SURVEYOR Required for Premises Department of City Insurance Company. Age 22-25. Competence in preparation of specifications, working drawings for alterations, etc. essential. Non-contributory pension scheme. Five-day week.—Full particulars of experience, etc., and salary required, to Box 1561, "The Builder."

SURVEYOR Required by B. & C. E. Contractors, Dagenham area, capable of measuring and preparing accounts up to £500,000.—Write giving details of experience and salary required, to Box 3977, "The Builder."

BUILDING SURVEYOR Required by multiple retailers with London headquarters. Applicants should be aged between 25/30 and have a sound knowledge of building construction. The work entails design and supervision of alterations to stores and commercial properties throughout the U.K.—Particulars of training, experience and present salary to Box 209, North Row, Marble Arch, London, W.1.

LONDON FIRM of CHARTERED QUANTITY SURVEYORS Require a MEASURING SURVEYOR in their office in the Midlands area, for preparation of final accounts and interim certificates. Good prospects. 5-day week.—Write, Box 1629, "The Builder."

SITE MEASURING SURVEYORS Required for Harwell and Aldermaston. Interesting work on long-term contracts.—State age, experience, and salary required, to Managing Director, W. E. CHIVERS & Sons, Ltd., Devizes, Wilts. Devizes 121.

CHARTERED BUILDING SURVEYOR Required, age 30-35, with good experience in preparation of working drawings, specifications, reports, correspondence, and site supervision and co-ordination. Energy and commonsense essential.—Full details of training, experience and salary required, to W. H. Watkins, GRAY & PARTNERS, 8 Colston-avenue, Bristol 1.

WILSON LOVATT & SONS LIMITED
require

SURVEYOR

for contracts in London and Home Counties.

Age 30-40, capable of dealing with all aspects of Final Accounts on contracts up to £1 million. Civil Engineering experience essential. Permanent position with good salary and working conditions. Pension and profit-sharing schemes in operation. Applications, giving details of age, experience and qualifications to

Chief Surveyor,
16 Grosvenor Crescent, S.W.1.

COST SURVEYOR

required on project in Liverpool Area. Knowledge of costing in Building and Civil Engineering essential.

Permanent employment for suitable candidate.

Reply in first instance, with references to:—

The Personnel Manager, Messrs. G. Percy Trentham Limited, Pangbourne, Reading, Berks.

A. J. WAIT & CO., LTD.

require

SENIOR AND ASSISTANT SURVEYORS

for interesting Contracts in the London and Home Counties area.

Permanency and prospects for the right applicants. Apply in writing, stating age, training, experience and salary required to **Chief Surveyor, Wellington Crescent, New Malden, Surrey.**

BUILDER'S SURVEYOR Required. Must have sound knowledge of site measuring, variations, interim valuations, final accounts, etc.; pension scheme. Initially the successful applicant would be engaged on a large War Department contract at Aldershot, upon completion of which transfer to Southampton would be effected, subject to satisfactory results. —Apply, in writing, with all particulars, including salary expected, to BRAZIER & SON, Ltd., 303/305 Portswood-road, Southampton.

MEASURING SURVEYORS Required for Air Ministry contracts. Experience of W.D. essential. Car owners preferred. For Worcestershire, Bristol and Calne areas.—Write, stating age, details of experience, and salary required, Box 1647, "The Builder."

SENIOR MEASURING SURVEYOR Required by Chartered Quantity Surveyors for large contracts in the London area. Experienced in interim valuations and finalising accounts. 5-day week. L.Vs. Salary according to experience.—Write details to Box 1659, "The Builder."

JUNIOR MEASURING SURVEYOR Required by Chartered Quantity Surveyors for contracts mainly in the London area. Good prospects. Five-day week. L.Vs.—Write, stating age, training and experience, to Box 1660, "The Builder."

BUILDING SURVEYOR Required in Architect's office. Preparation of specifications for and site supervision of smaller works for ecclesiastical and other works. Five-day week. L.Vs. Pension scheme. Salary in the range of £900 p.a.—LLEWELLYN SMITH & WATERS, 103 Old Brompton-road, S.W.7.

SITE MEASURING SURVEYOR, 20-26, Required by S.W.16 London Building Contractors for the South Coast at Eastbourne and Hastings. Able to measure Sub-Contractors' accounts, Variations Bonus Surveying, Valuations, Final Accounts. State age and experience. Salary by arrangement.—Box 1734, "The Builder."

SENIOR SURVEYOR. A situation exists in a well-known, old-established Builder's office for an experienced SENIOR SURVEYOR to check and agree Final Accounts. Applicants must have had considerable experience of this nature and should be over 45 years of age. Write giving full particulars of experience, salary and availability, to Secretary, C. MISKIN & SONS Ltd., Romeland House, St. Albans.

MEASURING SURVEYOR Required by London firm of Quantity Surveyors. Permanent position with good initial salary and prospects. Luncheon vouchers. Two weeks' annual holiday rising to three weeks after three years' service with the firm.—Apply stating qualifications and experience to Box 935, "The Builder."

SURVEYOR Required as ASSISTANT in Estates Department of large Midland manufacturing company. Age about 23-30. Car driver an advantage. —Write, giving details of education, qualifications, salaries earned and experience, to Box TB.718, c/o Hanway House, Clark's-place, E.C.2.

TOKEN CONSTRUCTION COMPANY LIMITED

require

SURVEYOR

Experienced man required capable of controlling all types of contracts from commencement to final account.

ALSO

BONUS SURVEYORS

required.

Reply to **Personnel Director, 68, Mount Street, London, W.1.**

LAND SURVEYOR REQUIRED

by large Speculative Housing Dept. Transport provided for travelling to Sites. Must be capable of carrying out accurate detailed surveys, setting out, levelling and have good knowledge of drainage. Excellent prospects. Pension scheme and good salary offered. Apply in writing stating age and salary required to:

Chief Architectural Surveyor,
Sir Lindsay Parkinson & Co., Ltd.
6 Lambeth Road,
St. George's Circus, S.E.1

TECHNICAL ORDER SURVEYOR

Permanent vacancy for fully trained Surveyor age range 26—38 years with H.N.C. in Building and experienced with Bills, Specifications, Drawings and can take off Material Schedules and make Joinery detail drawings for all classes of work. The position will be based at Head Office in Wolverhampton. Applicants should get in touch with us to discuss terms and conditions, **Wilson LOVATT & Sons Ltd.,** Clarence Street, Wolverhampton.

MEASURING SURVEYOR

required, also an

ASSISTANT to Contracts Manager

Car Driver. Permanency and good conditions to right applicants. Apply, giving details of age, experience, salary, etc., and when available, to

HAYMILLS (CONTRACTORS) LTD., Hanger Green, Western Avenue, W.5

HOLLOWAYS

HOLLOWAY BROS. (LONDON) LTD.

have a vacancy in their Building Division for a

SENIOR BONUS SURVEYOR

Duties will involve supervision and operation of the Company's incentive bonus scheme for a group of sites.

Applicants should have sound experience of incentive payment schemes and the ability to train and supervise staff. A knowledge of work measurement and target setting is essential. There is scope for advancement.

The Company offers three weeks' annual holiday, 5-day week and canteen facilities on the premises.

Applications, giving details of age, experience and present salary should be addressed to:

THE SECRETARY,
157 MILLBANK, LONDON, S.W.1

THERE ARE VACANCIES ON THE STAFF OF A

LONDON CONTRACTOR

for

MEASURING SURVEYORS

The work is interesting and varied, giving a wide experience in many classes of building. There are good prospects for promotion and salaries are reviewed regularly. Staff bonus and Pension Scheme in operation. Successful applicants will be based at Head Office in the West End of London. Write for interview to

Box No. 1445, 'The Builder', giving age and experience.

SURVEYOR AND ESTIMATOR

Required by the Harrow office of a nationally established firm of sub-contractors specialising in REINFORCED CONCRETE, PRECAST WORK and INSITU PAVING. Pension scheme. Reply: **Box No. 1770, "The Builder."**

SENIOR SURVEYOR

required by expanding Watford building firm. Must be capable of dealing with sub-contractors, interim applications, and final accounts. Excellent salary, annual bonus and pension scheme. Apply in the strictest confidence giving all relevant particulars to

Box No. 1681

BONUS SURVEYOR Required for contracts in the Greater London area. Tradesmen will be considered for this position. Experience in Taking-off Quantities, Preplanning and Measuring essential. Good salary, travelling expenses, pension scheme. —Write, giving details, to GILBERT-ASH Ltd., Stanhope Gate, W.1. Ref. RD/CBH.

JUNIOR SURVEYOR Required, to work under supervision of Senior in preparing estimates and generally assist in Surveying department.—Please state age, previous experience and salary required (in strict confidence) to the Managing Director, L. & W. WHITEHEAD, Ltd., Building Contractors, 169 Clapham-road, London, S.W.9.

SURVEYOR Required to take charge Accounts Dept. for efficient, progressive and old-established firm of Building Contractors, East London area. Preference given to applicants holding A.R.I.C.S. or A./I.O.B. Car provided. Contributory pension scheme.—Write, stating age, and brief details of experience, to Box 1826, "The Builder."

BUILDERS' SURVEYORS for Site Measuring, Sub-Contractors' Accounts and Interim Certificates and Valuations. Required by expanding estate developers. —Apply, stating experience and salary required, to Mr. H. J. C. Rodgers, DAVIS CONTRACTORS, Ltd., 350 Kilburn High-road, N.W.6.

BUILDER'S SURVEYOR Required. Must have sound knowledge of site measuring, variations, interim valuations, final accounts, etc., pension scheme.—Apply, in writing only, giving full particulars of age, experience, education and salary desired, to BRAZIER & SON, Ltd., 303-305 Portswood-road, Southampton.

DUE TO EXPANSION, a unique opportunity occurs with a large Industrial Development Company operating nationally for the following additional staff: (a) SURVEYOR (based at London office). (b) SITE SURVEYOR for large contract in the North Kent area. Requirements for both positions are minimum H.N.C. Standard preferably with some estimating experience, age 24/30. Both appointments carry a top salary, are permanent and pensionable after a short probationary period, and excellent opportunities exist for promotion.—Write, giving full details of past experience, to Box 1788, "The Builder."

PLUMBING SURVEYOR urgently Required by expanding company in Stratford, E.15 area. Pension scheme.—Write, giving full details of experience and salary required, to Box 1786, "The Builder."

G. E. WALLIS & SONS, LIMITED

require

SURVEYOR/ESTIMATOR

for Maidstone Office. Flat available. Applications giving details of age, experience and qualifications to: The Secretary, **G. E. Wallis & Sons, Ltd., 231, Strand, W.C.2.**

GABLE CONSTRUCTION Co. Ltd.

require

JUNIOR MEASURING SURVEYOR

Permanent Position.
Good Prospects.
Write, stating age, experience, salary required etc. to :—

54 Garratt Lane, S.W.18.

ASSISTANT SURVEYORS

ASSISTANT SURVEYOR for Builder's office. Application in writing, stating age, experience and salary required, to H. J. & A. WRIGHT, Ltd., High-street, Great Missenden, Bucks.

JUNIOR/ASSISTANT SURVEYORS Required by National Contractor for work at Head Office and on sites in the London area. Enthusiastic young applicants, keen to make a career in Contractor's surveying, and having preferably had some experience, should apply to Chief Surveyor, BERNARD SUNLEY & SONS, Ltd., 24 Berkeley-square, W.1.

ASSISTANT SITE SURVEYORS

required by National Contractors for Contracts in London and the Home Counties. Good prospects and permanency. Pension and Bonus Schemes operated. Details of experience and salary required should be sent to:

Box No. 1640, "The Builder"

PROPERTY COMPANY, London. ASSISTANT SURVEYOR (Maintenance). Age 20/25.—Box 922, "The Builder."

JUNIOR or ASSISTANT SURVEYOR wanted by West Middlesex Contractors to assist in site measurement, certifying payments to sub-contractors, taking-off, and general work in connection with interim and final accounts.—Experience, age and salary required, to Box 1662, "The Builder."

ASSISTANT BUILDING SURVEYOR Required in office of Chartered Surveyors with extensive London management and general building work. Salary £750 with prospects.—Box 1122, "The Builder."

ASSISTANT SURVEYOR (Inter. I.Q.S. standard) Required for varied and interesting duties offering ample opportunity to widen experience and progress to senior work. Salary commensurate with ability. Congenial working conditions.—Apply C. J. Champion, Esq., LOWTON CONSTRUCTION CO., Ltd., 47-51 Balham High-road, S.W.12. Telephone: BALham 0121.

YOUNG ASSISTANT SURVEYOR Required for rapidly expanding small builder in South Bucks. Must have experience in settling final accounts and some knowledge of estimating. Excellent prospects for keen and conscientious man.—Please state age, experience, and salary, Box 1754, "The Builder."

ASSISTANT to Contractors' Senior Surveyor Required mainly for site measuring. Greater London area. Excellent opportunity for advancement for young Surveyor with initiative.—Please telephone KING, PAD 1487.

JUNIORS

YOUTH Required as TRAINEE in Quantity Surveyors' office. Good opportunity if keen and with five passes G.C.E. Five-day week.—Apply, giving particulars and age, to DENIS TYRRELL & PARTNERS, 1 Newman-street, W.1.

JUNIOR Required in City Chartered Quantity Surveyors' office. Opportunity to learn the profession. —Write, in own handwriting, giving age, education, etc., to Box 1672, "The Builder."

YOUTH Required in Chartered Quantity Surveyor's office near Holborn. Opportunity to learn the profession. Five-day week. Luncheon vouchers.—Write details of age and education to Box 1794, "The Builder."

YOUTH Required by Chartered Quantity Surveyors in their office at Kensington. Opportunity to study the profession. Five-day week. Luncheon vouchers. —Details in own handwriting, giving age and education, to Box 1790, "The Builder."

WESTMINSTER QUANTITY SURVEYORS Require young man, 16-18. Applicants must hold General School Certificate. Excellent opportunities for training. Five-day week.—Reply, in own handwriting, to Box 1828, "The Builder."

TAKERS OFF

JUNIOR TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £800 to £900 p.a.—Reply in writing stating age and experience to Box 979, "The Builder."

TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £1,000 to £1,200 p.a.—Reply in writing stating age and experience to Box 984, "The Builder."

SENIOR TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £1,200 to £1,500 p.a.—Reply, in writing, stating age and experience to Box 961, "The Builder."

SENIOR and JUNIOR TAKERS-OFF Required by West End Chartered Quantity Surveyors for permanent staff.—Write, stating age, experience and salary required, to Box 908, "The Builder."

MANCHESTER.—London Quantity Surveyors Require experienced TAKER-OFF for interesting work in the North-West area. Five-day week. Superannuation scheme after trial period.—Box 945, "The Builder."

JUNIOR TAKER-OFF Required for busy West End office handling very varied types of contract. The position is a suitable one for an enthusiastic man anxious to gain experience quickly. No Sats. 9.15-5.15.—Write stating age, experience, etc., to Box 994, "The Builder."

SENIOR and Junior TAKER-OFF Required by London Chartered Quantity Surveyors.—Please reply, stating age, experience and salary required, to G. F. K. WHITE & HAYTON, F/F.R.I.C.S., 38/39 Parliament-street, S.W.1.

CHARTERED QUANTITY SURVEYORS Require TAKER-OFF (A.R.I.C.S.) for medium-size varied London practice. High salary scales paid to suitable applicants with security and prospects. Only Takers-off willing to take responsibility and work hard and efficiently for a salary above average need apply.—Please write, Box 1443, "The Builder."

CHARTERED QUANTITY SURVEYORS, Victoria Street, Require JUNIOR TAKER-OFF for interesting and varied work. L.V. State salary and experience.—Box 1504, "The Builder."

TAKERS-OFF and WORKERS-UP

required.

Interesting work, ample scope for advancement, good conditions.
Write to

**Hamilton H. Turner & Son,
19, Queen Anne's Gate, S.W.1.**

A. S. WILSON AND PARTNERS

require for London Office the following Staff:

TAKERS-OFF

with at least one year's experience.

WORKERS-UP

capable of Abstracting and Billing all trades.

Apply stating experience and salary required to—

8, Storey's Gate, S.W.1

PERMANENT position for a Senior TAKER-OFF (A.R.I.C.S.) with London Quantity Surveyors. Salary £1,750 per annum plus overtime. Five-day week, Pension and Life Assurance scheme.—Write stating age and experience to Box 1604, "The Builder."

PROMOTIONAL PROSPECTS

offered to

AN ASSISTANT TAKER-OFF

with drive and initiative, capable of accepting responsibility and making decisions. Position offers scope of advancement with consequent salary increases.

Write, in confidence, giving full details of past experience, salaries and employers, to:

Box No. 1690, "The Builder"

SENIOR TAKER-OFF

required for Permanent Staff appointment with National Contractors to work temporarily at their Head Office in Berkeley Square, and shortly thereafter at their office at Hemel Hempstead.

This is a Senior appointment, having excellent prospects for keen and adaptable Taker-Off, aged 30-45.

Applications, giving brief details as to previous experience, to

**Chief Surveyor,
BERNARD SUNLEY & SONS LTD.,
24 Berkeley Square, W.1.**

JUNIOR TAKER-OFF Required by London Quantity Surveyors. Progressive position. Good salary according to experience. Pension and Life Assurance scheme.—Write stating age, experience and salary required, to Box 1605, "The Builder."

AN opportunity for a Taker-off with sound professional training to join an expanding firm of Chartered Quantity Surveyors offering varied and interesting duties including following contracts through to completion. Team spirit essential.—Please write stating age, experience and present salary to RAYMOND J. PLAYLE, A.R.I.C.S., 96 Eltham-road, S.E.12.

EXPANDING practice South-East London Requires TAKER-OFF with sound professional training. Excellent prospects for the right man. State experience and present salary to Box 925, "The Builder."

SENIOR and JUNIOR TAKERS-OFF (preferably A.R.I.C.S.), between ages of 25/35. Required by GLEEDS, 106 Regent-street, W.1. Office hours 9.30 a.m.-6 p.m., five-day week.—Please telephone REGent 5111 for appointment.

JUNIOR TAKER-OFF Required in small Knightsbridge Quantity Surveyors' office. Good prospects. Opportunity to gain experience in all branches of the profession.—Reply, with particulars, to Box 1567, "The Builder."

JUNIOR TAKER-OFF Required in Chartered Quantity Surveyors' office, Holborn area. Good prospects for advancement. 5-day week. L.Vs.—Write, Box 1628, "The Builder."

TAKER-OFF Required by Westminster Chartered Quantity Surveyor's office. L.Vs. Write, in own handwriting, giving details of experience and salary required.—Box 1623, "The Builder."

ASSISTANT SURVEYOR Required of not less than Intermediate standard and experienced in working-up. Varied work and five-day week.—Apply, stating age, experience and salary required, to DENIS TYRRELL & PARTNERS, 1 Newman-street, W.1.

JUNIOR TAKER-OFF of intermediate or final standard for small City office. Three weeks holiday, 1½-overtime, L.Vs. and Superannuation. Excellent future partnership prospects. Please state age, experience and salary expected.—Box 1648, "The Builder."

TAKER-OFF Required for head office in Victoria. Permanent position, five-day week, overtime paid, pension scheme after six months' service.—Reply stating age, experience and salary required, to MESSRS. LANE AND JEWELL, 15 Buckingham Palace-gardens, S.W.1.

GOOD OPPORTUNITY may occur in near future for free-lance TAKER-OFF, to assist professional firm, must be capable of high standard of work coupled with high output ability in return for commensurate remuneration promptly paid.—Write, stating details of experience and availability, to Box 1685, "The Builder."

EXPERIENCED TAKER-OFF Required in West End London Quantity Surveyors' office.—Reply, stating age, experience and salary required, to Box 1682, "The Builder."

TAKER-OFF, Final standard, Required, L.Vs., Pension scheme.—Write giving full details to BRYDEN & WOODFORD, 33 Catherine-place, Westminster, S.W.1.

CHARTERED QUANTITY SURVEYORS, Westminster, have vacancy for experienced TAKER-OFF, L.Vs., Pension scheme.—Apply Box 1728, "The Builder."

TAKERS-OFF, qualified R.I.C.S. 1956 to 1960, Required by DEARLE & HENDERSON for London and Maidstone.—Reply 75 Victoria-street, S.W.1, or Tel.: ABB 2841.

SENIOR AND JUNIOR TAKERS-OFF Required by C.Q.S. in West Sussex. Five-day week. L.Vs. Write stating age, experience and salary required.—Box 1694, "The Builder."

AUSTRALIA. Vacancies for TAKERS-OFF, see advert. under heading "Overseas Appointments."

TAKER-OFF Required, recently qualified or studying for Final, to work in small but busy Chartered Quantity Surveyor's office in Croydon to help in the Taking-off, preparation of Bills of Quantities, measurement on site and final accounts of interesting and varied work in London and elsewhere.—Reply for this permanent situation stating age, experience and salary commensurate with experience, to SARJEANT, STIMPSON & PARTNERS, 78 Park-lane, Croydon, Surrey.

EXPERIENCED TAKER-OFF Required by London firm of Chartered Quantity Surveyors. Luncheon Vouchers. 5-day week. Overtime paid. Pension Scheme.—Please write, stating age, experience and salary required, to Box 1818, "The Builder."

YOUNG and expanding firm of Quantity Surveyors Require the following Assistants for varied and interesting contracts in their South Coast and Wimbledon offices. (1) TAKER-OFF of Final Standard including site measurement. (2) WORKER-UP of First Examination Standard with opportunities for Junior Taking-off. (3) JUNIOR to learn profession. Every help and consideration will be given to assistants studying for R.I.C.S. Exams.—Box 1808, "The Builder."

TAKER-OFF Required in Chartered Quantity Surveyors' Shrewsbury office to assist in dealing with a long-term programme of substantial industrial, commercial and University projects. Pension and sickness benefit schemes in operation. Salary according to age and experience.—Please apply, stating salary required, age and experience, to W. T. HILLS & CO., 69a Wyle Cop, Shrewsbury.

SENIOR QUANTITY SURVEYOR for measurement of £3 million contract in Midlands. Salary up to £2,000.—Details of experience, age, etc., Box 1821, "The Builder."

YOUNG QUANTITY SURVEYOR. Intermediate standard or recently qualified, Required for Central London Professional office. Salary range £800-£1,100, according to age and experience. 5-day week. Pension scheme. Luncheon Vouchers.—Apply, with details, to Box 1825, "The Builder."

SENIOR TAKING-OFF ASSISTANTS Required by Bath firm of Quantity Surveyors. Permanent position. Five-day week, overtime extra.—Apply, in own handwriting, stating experience, age and salary required, Box 1827, "The Builder."

TAKER-OFF/MEASURING SURVEYOR Required in Harrogate Chartered Quantity Surveyors' office.—Please apply, stating age, experience and salary required, to THOMPSON & ALEXANDER, 2 Princes-square, Harrogate. (Tel: 69233.)

TAKER-OFF Required by Chartered Quantity Surveyors near Victoria Station. Permanent appointment. Pension scheme. Luncheon vouchers.—Write full particulars to Box 1753, "The Builder."

JUNIOR TAKER-OFF, Inter. to Final standard, Required by Holborn Chartered Quantity Surveyors. Small office with varied and interesting work.—Write stating age, experience and salary required to Box 1757, "The Builder."

E. C. HARRIS & PARTNERS have vacancies on permanent staff for TAKERS-OFF, both Senior and Assistant, at Basildon office. Pension scheme and 5-day week. Salary consistent with experience.—Please apply to Head Office, 7-12 Tavistock-square, W.C.1.

TAKER-OFF of Intermediate to Final standard Required by firm of Quantity Surveyors, Westminster. Good starting salary with excellent prospects and regular reviews, luncheon vouchers, two weeks' holiday rising to three weeks after three years' service with the firm.—Apply stating age and experience to Box 991, "The Builder."

WORKERS UP

WORKER-UP Required by firm of Quantity Surveyors, Westminster. Five-day week and Luncheon Vouchers. Good prospects and opportunities for the right man.—Apply stating age and experience to Box 980, "The Builder."

EXPERIENCED WORKER-UP Required by firm of Chartered Quantity Surveyors in West End, London.—Reply stating experience, age, salary required to Box 931, "The Builder."

WORKERS-UP Required. Senior and Junior for office of Chartered Quantity Surveyors in the Holborn area.—Box 913, "The Builder."

PERMANENT vacancy for an experienced WORKER-UP with firm of Quantity Surveyors, Westminster. Five-day week. Luncheon vouchers. Salary according to qualifications and experience and reviewed regularly.—Apply Box 936, "The Builder."

WORKERS-UP Required by London Chartered Quantity Surveyors for permanent staff.—Write stating age, experience and salary required to Box 998, "The Builder."

SENIOR WORKER-UP Required for Holborn Chartered Quantity Surveyors. Security for right applicant willing to make working-up his career. Good salary in return for hard work and competence.—Please write, stating age, experience and salary required, to Box 1444, "The Builder."

EXPERIENCED WORKER-UP Required by London firm of Quantity Surveyors. Salary £850 to £1,000 according to age and experience. Pension and Life Assurance scheme. Five-day week.—Box 1606, "The Builder."

TAKER OFF / MEASURING SURVEYOR (A.R.I.C.S.) Required by London Quantity Surveyors. Five-day week. Pension and Life Assurance scheme. Salary £1,500 per annum. Car provided.—Write stating age and experience to Box 1607, "The Builder."

WORKER-UP Required by LESLIE G. DIGHT, F.R.I.C.S., 35 Portland-place, W.1. Salary about £650 to £800 p.a. according to age and experience.—Reply stating age, experience and salary required.

EXPERIENCED WORKER-UP Required in London Chartered Quantity Surveyors' office. Must be over 23 years of age with at least four years' office experience of working-up.—Reply, stating age, experience and salary required, Box 1673, "The Builder."

EXPERIENCED WORKER-UP Required in West End London Quantity Surveyors' office.—Reply, stating age, experience and salary required, to Box 1683, "The Builder."

EXPERIENCED WORKER-UP Required in London Chartered Quantity Surveyors' office—will be deputy to the Chief Worker-up.—Box 1725, "The Builder."

WORKER-UP and WORKER-UP/SITE MEASURER Required by C.Q.S. in West Sussex. Five-day week. L.Vs. Write, stating age, experience and salary required.—Box 1695, "The Builder."

EXPERIENCED WORKER-UP Required for expanding and progressive Quantity Surveyor's offices in South Kensington. Opportunity to take control of department. £800-£1,000 according to experience. L.Vs.

WORKER-UP Required by WOOD AND WEIR of 5 Wigmore-street, W.1. Five-day week and luncheon vouchers.—Reply stating age, experience and salary required, or telephone LANgham 4617.

WORKER-UP for long-term contract at Newport, Mon. Required by firm of Chartered Quantity Surveyors. Rented accommodation available.—Please apply, stating age, experience and salary required, to Box 1819, "The Builder."

FIRM OF CHARTERED QUANTITY SURVEYORS have permanent vacancy in their London office for WORKER-UP. Luncheon Vouchers. Pension scheme. Overtime paid.—Please write, stating age and experience, to Box 1820, "The Builder."

CHIEF WORKER-UP Required by Chartered Quantity Surveyors with busy practice near Victoria. Salary £800-£1,000, according to experience.—Write, Box 1814, "The Builder."

WORKERS-UP Required, with opportunities for advancement, on the permanent staff of London and Branch office at Kingston, Surrey. L.Vs and Pension scheme.—Write, in the first instance, stating experience and salary required, to ERIC G. LYNDE & PARTNERS, Chartered Quantity Surveyors, 41 Russell-square, London, W.C.1.

WORKER-UP Required by Richmond, Surrey, Chartered Quantity Surveyor, with minimum 4 years' professional experience, for permanent position.—Write, stating age, experience and salary required, to Box 1733, "The Builder."

WORKER-UP, of intermediate standard, for small City office to handle preparation of B.Q.s and train as Taker-Off. Salary £650-£750. Excellent prospects, three weeks' holiday, 1½-overtime, L.V.s and pension.—Box 1773, "The Builder."

WORKER-UP Required by Richmond, Surrey Chartered Quantity Surveyor with minimum four years' experience, for permanent position.—Write stating age, experience and salary required to Box 1736, "The Builder."

WORKERS-UP (Senior and Junior) Required by J. A. BURRELL, F.R.I.C.S., 7 Grays Inn-square, W.C.1. Permanent position, 5-day week, luncheon vouchers, pension and life assurance schemes. Excellent working conditions. Friendly staff, overtime. Varied work.—Reply to above address in own handwriting, stating age, experience and salary required.

WORKER-UP Required in professional office Victoria area.—Write, Box 1752, "The Builder."

MANCHESTER. Experienced WORKER-UP Required for permanent situation. Good commencing salary, overtime at time and a-quarter.—Write, stating age and experience, Box 1748, "The Builder."

ENGINEERS

ENGINEER, capable of designing all classes of reinforced concrete structures, Required by INDENTED BAR & CONCRETE ENGINEERING CO., Ltd., 171 Victoria-street, London, S.W.1.—Apply by letter only, giving full details of experience.

TECHNICAL ASSISTANTS

BUILDING AND CIVIL ENGINEERS

RICHARD COSTAIN LIMITED

invite applications for these appointments from young men who have completed a trade apprenticeship in the Building or Civil Engineering Industry and who possess a recognised qualification, *e.g.* National or City and Guild Certificate.

Age approximately 20-22.

Appropriate training will be given to enable successful candidates to complete and interpret technical information, production costs, etc., for management control purposes.

Willingness to work on site is essential. Subsistence paid when living away from home.

Please write to :

Assistant Personnel Officer,
111, Westminster Bridge Road,
London, S.E.1.

PLANNING ENGINEER

required

to deal with all aspects of the planning of Building Contracts from initial stages to operational programming, plant installation, development and application of constructional technique etc.

also

TRAINEE

with sound experience of building work either management or design, or operation having genuine interest in this work.

Apply with details to Personnel Department.

HUMPHREYS LTD.
199 KNIGHTSBRIDGE, S.W.7.

SITE ENGINEERS Required for building contracts London area. Must have considerable experience in multi-storey concrete framed buildings. Good salary for men with initiative.—Apply in writing, stating age and experience, M. J. GLEESON (CONTRACTORS), Ltd., Haredon House, London-road, North Cheam, Surrey.

F. R. BULLEN & PARTNERS, Consulting Engineers, Require for their Glasgow and Darlington offices DETAILERS experienced in reinforced concrete or structural steelwork.—Applications in writing should be sent in the first instance to Dacre House, Dean Farrar-street, Westminster, London, S.W.1.

ENGINEER

Medium size London Contractors with outstanding record of expansion, are seeking a qualified Engineer to take full control of

CONTRACTS MANAGEMENT

on all sites. The position calls for an Engineer experienced both in Engineering and Building Management, and an ability to organise and run the existing department on sound business principles. There are outstanding opportunities for growth with the Company. Full details, in writing, to the Chairman.

Box No. 1787, 'The Builder'.

J. M. JONES & SONS LTD.

require

CIVIL ENGINEER

To control Civil Engineering Division. The successful applicant will be required to re-organise and develop the Division. Progressive appointment with Staff Pension and Life Assurance and assistance with housing if necessary. Apply with details of general and technical education, qualifications and details of experience and state commencing salary required, to the Secretary,

J. M. JONES & SONS LTD.,
Highway Works,
Maidenhead.

ESTIMATORS

JOINERY ESTIMATOR Required for large modern Joinery Works. Able to price Bills of Quantities and estimate from plans. Progressive post for ambitious applicant. Pension scheme.—W. H. GAZE & SONS, Ltd., The Gazeway, Portsmouth-road, Thames Ditton. Emberbrook 5511.

JUNIOR ESTIMATOR with some previous experience Required for small Works Department of City Builder.—Apply in writing to Secretary, WILLIAM VERRY, Ltd., 34/39 East Smithfield, London, E.1.

ESTIMATOR/SURVEYOR

required by Building and Decorating Department specialising in high-class decorations, joinery work and alterations. Knowledge of draughtsmanship an advantage. Permanent staff position. Superannuation and free life assurance schemes.

Write full particulars, **Staff Director, MAPLE & CO. LTD., Tottenham Court Road, W.1,** or Telephone EUS 7000 for appointment.

ESTIMATOR Required for small works Department. Must be fully experienced in Site Measurement all trades, Taking-off and Pricing from Drawings and Specifications and preparing Interim Certificates and Final Accounts.—Apply in writing stating age, experience, and salary required, to GRACE & MARSH, Ltd., New Bridge Works, Waddon, Croydon.

ASSISTANT ESTIMATOR Required for varied and interesting work including taking-off, site measuring, targeting, planning and job management in all classes of building work. Applicants should have had some experience in pricing bills. Excellent prospects to progress with this expanding group of companies.—Apply to Mr. Lott, R. D. HOPE & CO., Ltd., 15 Selsdon-road, South Croydon, Surrey. CROydon 9262.

F. W. SHANKS Ltd., Building and Civil Engineering Contractors, Hunstanton, Norfolk, have a vacancy on their permanent staff for an ESTIMATOR/SURVEYOR. Applications are invited from men age 25-45 who, preferably, have gained experience with medium-size firms, in both building and civil engineering work. Written applications must give age, fullest details of education, training and experience, with salary required, indicating when free to accept appointment.

CUBITTS

Applications are invited from

ESTIMATORS

preferably aged 35 or over who have good experience of tendering either for major heavy civil engineering works or medium sized building contracts in and around London.

SURVEYORS

fully experienced in variations and interim and final accounts.

The positions are permanent and offer good opportunities for progress in an expanding organisation.

Please send full details to—

Personnel Manager (B 8803),

HOLLAND & HANNEN and CUBITTS (G.B.) LTD.,
1, Queen Anne's Gate, London, S.W.1

GALBRAITH BROS. LTD.

require

ASSISTANT ESTIMATORS

for permanent and progressive positions at both London and Crayford Offices. Applicants should have sound knowledge of building up prices and would work directly under supervision of Chief Estimator.

ASSISTANT SURVEYORS

for permanent progressive positions at Crayford Office. Applicants should be capable of taking off quantities, site measuring, preparing valuations etc., and should preferably have knowledge of planning and cost control of contracts.

Apply in writing to Crayford Bridge, Crayford, Kent, stating age, experience and salary required.

EXPERIENCED ESTIMATOR Required by London Building Contractors for tendering mainly on Bills of Quantities for various types of work up to £200,000 in value. Permanent and pensionable position. Apply, stating age, experience and salary range contemplated.—Box 1674, "The Builder."

COMPETENT and fully experienced ESTIMATOR and SURVEYOR Required, capable of dealing with works up to £25,000 required by established General Building Contractors in N.W. London.—Write, or telephone, The Manager, HOSIER & DICKINSON, Ltd., Brent Sidings, Edgware-road, N.W.2. GLA 8611/2/3, stating details of past experience, age and salary required, etc.

PAINTING ESTIMATOR Required for N.W. London Building Contractors. Must be experienced in all classes of work with an up-to-date knowledge of the Industry. Car driver preferred.—Write, stating age, experience and salary required, to Box "L.H.", c/o J. W. VICKERS & CO., Ltd., 7 Great Winchester-street, E.C.2.

ESTIMATOR Required. Must have comprehensive knowledge of Sanitaryware and Fittings domestic use, schools, factories, etc. Pensionable post. Staff canteen.—Write full details age, experience and salary required, to the Secretary, (Dept. B), BROAD & CO., Ltd., 4 South Wharf, Paddington, W.2.

JUNIOR ESTIMATOR Required by Bucks Builders. Full details of training and experience. Superannuation scheme in operation.—Box 1763, "The Builder."

ESTIMATOR/SURVEYOR. Keen young ASSISTANT Required for work under experienced Senior Surveyor. Duties will include site measurement and pricing for work on public buildings. Applicant must have recent contractual experience. Commencing salary £815 plus age allowance up to £40 per annum.—Write, giving age and full particulars or experience, to Town Clerk, Town Hall, S.E.5. Closing date Wednesday 19th October, 1960.

ESTIMATOR

required by George Calverley & Sons (Contractors) Ltd.

Experienced in all types of construction and capable of providing complete cost analysis.

Good commencing salary. Car provided. Pension and Life Assurance Scheme.

Apply to The Secretary, Evington Valley Road, Leicester.

BUILDING ESTIMATOR

If you are young and have H.N.C. or L.I.O.B. in Building and some experience in building up prices for estimating we have a progressive vacancy and offer a good salary to a suitable applicant. Please get in touch with

WILSON LOVATT & SONS LTD.,
Clarence Street,
Wolverhampton

T. G. CONSTRUCTION COMPANY LTD.

MEMBER OF THE TARMAC GROUP

require a

Senior Estimator

for building works up to £500,000 in value. Applications are invited from experienced estimators in the 30-40 age group who have concentrated in this range of tendering. Pension and Life Assurance scheme in operation. Car provided. Only first-class men with the qualifications and experience required should apply to the

Personnel Officer

T. G. CONSTRUCTION COMPANY LTD.

Ettingshall, Wolverhampton.

BUILDING ESTIMATOR/SURVEYOR

Opportunity for progressive, energetic, experienced man about 25/35, in substantial Builders/Decorators, Kingston, Surrey. Estimate to final account, including site supervision. Salary range £800–£1,000 to commence. Pension. Send full details in strict confidence to

Box No. 1743, "The Builder"

ESTIMATORS SENIOR & ASSISTANT

Required immediately. Must be fully experienced in pricing all types of B. and C.E. Works. Pension and Life Assurance Scheme. Apply, full details, age, experience, salary required, to:

Managing Director,
F. R. HIPPERSON & SON LTD.,
Invicta House,
Dagenham, Essex.

ESTIMATOR/SURVEYOR Required for plastering firm. Top salary to right man. Car provided.—Write, in confidence, to Box 1778, "The Builder."

BUILDER'S ESTIMATOR/SURVEYOR. Mainly for estimating for jobs £1,000 to £250,000. Applications for interview to be endorsed "Estimator" on envelope.—L. BROWN & SONS, Ltd., 1 Macclesfield-road, Wilmslow, Cheshire.

ESTIMATOR/SURVEYOR Required. Experienced in tendering for contracts up to £60,000, preparing valuations for certificates, adjusting variations and dealing with final accounts.—Please reply, giving brief outline of experience, age and salary required (which will be treated in strict confidence) addressed to the Managing Director, L. & W. WHITEHEAD, Ltd., Building Contractors, 169 Clapham-road, London, S.W.9.

MANAGERS

MANAGER Required for Building and Civil Engineering Contractors, Birmingham. Commencing salary £2,000 per year plus car. Good prospects. Only fully experienced and good-class men need apply. All replies treated in strictest confidence.—Write, giving full details, Box 1621, "The Builder."

MANAGER Required for old-established firm of Building Contractors. Apply by letter stating age, experience and salary required. House available.—ALFRED GROVES & SONS, Ltd., Milton-under-Wychwood, Oxon.

COMMERCIAL ASSISTANT to General Manager of large firm of Structural Engineers Required in South Wales area. Only applicants with wide experience of Structural Steel Engineering should apply. Pension scheme, five-day week and canteen facilities.—Box 1751, "The Builder."

COMPANY SECRETARY

required for progressive private company in Monmouthshire engaged in building and contracting on a large scale. A salary of not less than £1,200 per annum is envisaged and assistance with housing may be arranged if necessary. Apply in confidence giving full particulars of age, education and experience to

Box No. 1792, 'The Builder'

BUILDING EXECUTIVES

Due to an expanding programme, a National Company of Building Contractors require the following to augment their Edinburgh staff.

(a) **BUILDING CONTRACTS MANAGER,** to be completely responsible for managing and co-ordinating the construction of large-scale housing estates, including multi-storey flats, both for Public Authorities and Private Enterprise. Previous experience with managerial status on similar large-scale projects essential.

(b) **SENIOR BUILDING AGENT** with sound practical experience, to be responsible for the construction of factories, multi-storey flats and other R.C. structures. Must be familiar with latest shuttering methods, use of modern plant and equipment and application of methodical planning and costing techniques.

(c) **BUYER** to take charge of Buying Department, with good knowledge of building construction and materials, especially joinery items, together with experience of negotiating and placing sub-contracts.

Higher than average salaries and bonus will be paid and cars will be provided for the successful applicants of appointments (a) and (b).
All positions are progressive and eligible for entry into the Pension Scheme.

Applications, which will be treated strictly confidentially, should state age, qualifications, experience, present and previous employers, giving positions held.

Box No. 1756, "The Builder."

BRANCH MANAGER Required Builder's Merchant, Enfield. Contributory pension and profit sharing scheme operating.—Apply in own handwriting with full details past experience, salary required and when free.—Box 1750, "The Builder."

SUPERVISING CONTRACTS MANAGER for expanding Development Company. Applicants must be fully conversant with all types of construction, roads and sewers, etc. Knowledge of Quantity Surveying and Site layouts preferred. Experience in pricing would be an advantage. Must be capable of controlling site organisation including labour only sub-contractors. Will work in direct contact with Construction Director. This is an excellent opportunity for the right man. Car supplied. Non-contributory pension scheme.—Write, giving fullest details and salary expected.—Box 1766, "The Builder."

JOINERY WORKS MANAGER. Progressive and pensionable position offered to person with experience of operating modern methods of management, and controlling the manufacture of high quality and purpose made joinery. Applicant will be required to take full charge of old-established Building and Civil Engineering Contractors' joinery department, and must be experienced estimator. Works situated South London area.—Apply, stating age, experience and salary required, Building Manager, Box 1767, "The Builder."

AREA MANAGERS PROJECT MANAGERS and TOP GRADE AGENTS

required by rapidly expanding national contractors for major building contracts valued at between £200,000 and £4,000,000. These are senior and permanent positions and high salaries will be paid to suitable applicants.

Please submit details in strict confidence to:

Box No. 1641, "The Builder"

Opportunities for rapid advancement exist in the shopfitting division in an expanding company backed by a large organisation operating on a National basis.

Vacancies exist for several young men to undertake each of the following:—

CONTRACT MANAGEMENT
SETTING OUT
ESTIMATING
DRAWING

Men with previous experience preferred, but those still undergoing training might be acceptable.

Reply giving age, past experience and salary required to—

Box No. 1749, "The Builder"

CRONDALE FURNITURE CO. LTD.

MAKERS OF PRESTIGE KITCHEN UNIT FURNITURE

are creating a position for a senior SALES EXECUTIVE to control their Contracts Division.

The position calls for an experienced man with live connections with ARCHITECTS, BUILDING CONTRACTORS AND ESTATE DEVELOPERS to whom he will be expected to introduce a new range of Kitchen Units.

Exceptional opportunities and a very high income are offered to a man with drive, ambition and Sales 'know-how'.

Apply: The Managing Director, CRONDALE FURNITURE COMPANY LIMITED, Byron Road, Wealdstone, Harrow. Tel: Harrow 2236.

TROLLOPE & COLLS LIMITED

Invite applications for the following posts:—

ASSISTANT BUILDING MANAGERS

for high-class building contracts principally in the London area. Must have some experience in the supervision of large contracts.

BONUS SURVEYORS

fully experienced in the measurement and preparation of bonus returns.

MANAGERS/SURVEYORS

with experience in large reconstruction, alteration and maintenance work with a high standard of finishings. Capable of supervising work and dealing with estimates and accounts.

These posts will be permanent and pensionable, carrying salaries commensurate with responsibilities.

Applications, giving full particulars of qualifications, experience and salary required should be sent to:

The Assistant Secretary,
Trollope & Colls Limited,
One Noble Street, Gresham Street,
London, E.C.2.

BUYERS

BUYER Required for head office of medium-sized, progressive Building and Civil Engineering Contractors operating mainly in the South West. Applicants must have knowledge of B.O.Q., drawings and office routine and should be employed elsewhere in a similar capacity, although consideration will be given to assistant buyers in a large organisation.—Apply, in strict confidence to the Managing Director, giving details of age, experience and salary required, DEVON CONTRACTORS, Ltd., Venny Bridge, Whipton, Exeter. Telephone Exeter 66216/8.

BUYER Required by medium-sized contractors, able to take-off from drawings. State salary required.—C. NEAL AND SON, Ltd., West Horsley (Leatherhead), Surrey.

JUNIOR BUYER Required, experience of building materials essential.—Write stating salary, age and experience to Buyer, McMANUS & CO., Mimms Hall-road, Potters Bar, Middlesex.

BUYER Required by Bucks Builders. Must have had previous experience and have good knowledge of Bills of Quantities. Superannuation scheme in operation.—Box 1764, "The Builder."

BUYER Required by medium-sized and rapidly-expanding firm of Building Contractors and Estate Developers in S.W. London. Excellent opportunity for a keen man in a growing business. Good salary, pension scheme available, one Saturday in five.—Write, giving age, experience, and salary required, to Box 1774, "The Builder."

ASSISTANT TO CHIEF BUYER

required. Some experience essential. Apply in writing giving full details and salary required to:—

Chief Buyer, **G. Percy Trentham Ltd.** Pangbourne, Reading, Berkshire.

BUYER

(Building and Civil Engineering Industries)

SCOTTISH SPECIAL HOUSING ASSOCIATION LTD.

invite applications for the superannuable appointment of BUYER at an annual salary of £1,450. Candidates must be keen and energetic and have sound administrative ability, allied to extensive experience of large-scale bulk buying for the building and civil engineering industries, including multi-storey flats. An intimate knowledge of all materials used in the building and civil engineering industries and of their markets and available sources is essential. A house to rent in Edinburgh is available if required.

Application forms obtained from the **Secretary, 15/21 Palmerston Place, Edinburgh.**

LAING HOUSING COMPANY LIMITED

has vacancies for

Assistant Buyers

Good prospects within an expanding organisation, including a Pension Scheme and other progressive benefits.

Applications in writing, giving brief details of past experience to Personnel Manager (L.H.B.5), **John Laing and Son (Holdings) Limited, London, N.W.7.**

REPRESENTATIVES

REPRESENTATIVES. Are you already calling on Builders, Estate Developers and Builders' Merchants in London and the Home Counties, and seek an opportunity to increase your income by carrying an additional competitive line? Generous commission and no administrative work involved.—Write, Box 1205, "The Builder."

DUST SHEETS. Agents wanted by Textile Manufacturers to sell Dust Sheets direct to Builders and Contractors on commission basis.—Replies stating area covered to MESSRS. BUCKINGHAM & BARRETT, Ltd., 3/4 Russia Row, Milk-street, E.C.2. Telephone: MONarch 5255.

LEADING Thermal and Acoustical Insulation Manufacturers offer excellent opportunities and prospects to experienced representatives wishing to specialise. Applicants should have contacts in, and be able to conduct negotiations at all levels throughout Building trade and Architectural profession.—Write giving all particulars to Sales Manager, JABLO PLASTICS INDUSTRIES, Ltd., Mill-lane, Waddon, Croydon, Surrey.

TOP CLASS REPRESENTATIVES with proved space selling record in the Building industry, Required by the SPECIFILE INFORMATION SERVICE. Expansion programme gives opportunity for considerable advancement to the right man. Income from salary and commission at least £1,000 a year, plus expenses. Car owner essential. Vacancies for North, Midlands and London areas.—Write in first instance giving full details to: The Sales Director, SPECIFILE Ltd., 131 High-street, Croydon, Surrey.

SALES REPRESENTATIVE

at once, must have good connections with Architects, Builders' Merchants and large Builders for three separate areas.

1. Somerset, Devon and Cornwall.
2. Berkshire, Wiltshire, Hampshire and Dorset.
3. Surrey, Sussex and Kent.

For well-established specialized building products. Weekly advance against commission to satisfactory Agent.

Box No. 1769, 'The Builder'

EXPERIENCED REPRESENTATIVES,

already calling on woodworking trades and large timber users, required in various areas to sell established line, with large and rapidly expanding potential, of heavy duty fastening equipment, including consumable fasteners. Exclusive territory and generous commission terms offered. State age, experience, territory covered to

Box No. 947, "The Builder"

CAWOOD WHARTON & CO., Ltd., seek additional REPRESENTATIVES to sell timber products to architects in Southern England including the London area. Applicants should be 25-35 with a building background and a willingness to pioneer. Pensionable appointment with generous conditions of service.—Apply, Staff Manager, CAWOOD WHARTON & CO., Ltd., Southlands, Harrogate.

AGENT Required for the U.K. to promote the sales of unique multi-purpose tubular trestles used by Building and Civil Engineering industry. Existing contacts with Site Agents and Contract Managers or their departments would be advantageous.—CAUSEWAY REINFORCEMENT, Ltd., Five Ash Works, Dover-road East, Northfleet, Kent.

REPRESENTATIVE Required to take over and develop a well-established connection in the counties of Bedfordshire, Buckinghamshire, and parts of Hertfordshire. Applicants must have a thorough knowledge of the joinery trade and be prepared to reside in or near the territory. Good salary and expenses. Car provided.—Replies, in confidence, giving full particulars of experience, age, etc., to the Managing Director, SHARP BROS. & KNIGHT, Ltd., Burton-on-Trent.

ESTABLISHED REPRESENTATIVE REQUIRED

To introduce our New Door-Cupboard to the Building Trade.

Excellent Prospects.

P.W.I. SUPPLIES, LIMITED.
Lammas Road, London, E.10.
LEYtonstone 8091.

BUILDERS' ASSISTANTS

ASSISTANT Required in Contracts Materials Department. Experience in all types of building and civil engineering drawings an advantage. Must be able to take-off materials for ordering purposes from drawings and bills.—Write, stating age, experience, salary required, M. J. GLEESON (CONTRACTORS), Ltd. (Estates Dept.), Haredon House, London-road, North Cheam, Surrey.

ASSISTANT Required in busy builder's office, Hounslow. Preparation of accounts. Knowledge of estimating and surveying essential.—Write, stating age, experience and salary required, to ROGER MILLER & CO., Ltd., 12 Pownall-gardens, Hounslow. HOU 5712.

BUILDER'S ASSISTANT Required for East Surrey to supervise work in that area under General Manager, the work consisting mainly of high-class alterations, decorations, additions and architect-designed houses. Applicants with the necessary experience should apply giving full particulars in confidence to Box 1614, "The Builder."

JUNIOR BUILDER'S ASSISTANT Required by firm of Decorators and Jobbing Builders in N.W. Middlesex area, to drive light van and assist in office duties. Good prospects of advancement.—Box 1664, "The Builder."

ENGERT & ROLFE Ltd.

require in their Contracts Department, the following:—

(1) An ASSISTANT proficient in dealing with the preparation of estimates, the taking of site measurements and the preparation of accounts.

(2) An ASSISTANT proficient in the supervision and handling of labour in asphalte and built-up felt roofing.

Salary according to experience. Pension scheme.—Applications in writing to the Contracts Manager, ENGERT & ROLFE Ltd., Barchester-street, London, E.14.

REQUIRED immediately man with good knowledge of Facing Bricks and for taking charge of Quotation section of well-known London Builders' Merchants. Own employees know of this advertisement.—Full particulars to Box 1783, "The Builder."

ASSISTANT to obtain quotations, place orders, check and chase deliveries and help preparation of accounts for small works.—Apply, CRAMB & DEAN, Ltd., 104 Belsize-lane, N.W.3.

ASSISTANT Required, small builders, N.W. London. Able estimate, interview and take control of work. 5-day week. Driver, ex-Tradesman.—Write, stating age, experience and salary required, Box 1807, "The Builder."

ASSISTANT

Male, for Premises Department

must be willing to travel in the provinces and be able to prepare schemes, specifications, carry out surveys and be a good draughtsman. Knowledge of Shop-front design an advantage. Good commencing salary with Pension Plan. Please write giving fullest particulars of age, experience, etc. to

Personnel Manager,
The National Cash Register Co. Ltd.
206-216 Marylebone Road, London, N.W.1.

CLERKS OF WORKS

CLERK OF WORKS Required to supervise large building operation in Jersey for about two years. Accommodation can be provided.—Apply stating experience and salary required to Box 1781, "The Builder."

CLERK OF WORKS Required to take over School Extension now in progress Gosport, Hants, due for completion May, 1961.—Applications, giving brief details of experience, age and salary required, to W. C. MANGAN, 2 Ribblesdale-place, Preston, Lancs.

CLERK OF WORKS

Applications are invited from men aged 28 to 40 with at least O.N.C. (Building) or equivalent and experience as Clerk of Works of supervising the erection, modification and repair of industrial buildings. Experience of drawing up schedules of work to be done an advantage.

This staff position is pensionable and the normal working week is 5 days, 40 hours. Commencing salary according to qualifications and experience.

Please write stating age, etc., to—

SP.A. Dept.,

MICHELIN TYRE CO. LTD., STOKE-ON-TRENT

quoting Ref. No. B/595/TB.

AGENTS

CUBITTS

HOLLAND & HANNEN AND CUBITTS (G.B.) LTD.,

have vacancies for

AGENTS

with good experience in control of large building or structural engineering contracts.

PLANNING ENGINEERS

preferably with a recognised qualification in civil or structural engineering and with experience of time and method operational planning and budgetary control of expenditure on labour, plant, and materials.

The appointments are permanent, offering good conditions, interesting and varied work and excellent opportunities for advancement.

Please send full details to—

Personnel Manager (BK 8804),

HOLLAND & HANNEN AND CUBITTS (G.B.) LTD.,
1, Queen Anne's Gate, London, S.W.1

SITE AGENTS Required for a large building term-contract starting shortly in the Farnborough, Hants, area. Applications are invited from experienced men of proven ability.—Write, giving full details and salary required, to Box 1005, c/o, GEO. MURRAY (ADVG.), Ltd., Columbia House, Aldwych, W.C.2.

SITE AGENTS Required for a building contract about to commence in the Bournemouth area. Applications are invited from experienced men of proven ability.—Write, giving full details and salary required, to Box 1006, c/o GEO. MURRAY (ADVG.), Ltd., Columbia House, Aldwych, W.C.2.

SIR LINDSAY PARKINSON & CO., Ltd., Require AGENTS and GENERAL FOREMEN for speculative housing and flat contracts.—Please reply stating trade and experience to Housing Director, 6 Lambeth-road, S.E.1.

SENIOR AGENT Required. Experienced in reinforced concrete work.—Apply, Contracts Manager, BERNARD SUNLEY & SONS, No. 4 Area Office, Crown-road, Morden, Surrey.

FOREMEN AND SUPERVISORS

FIRM of National Building Contractors Require first-class reinforced concrete GENERAL FOREMEN for work in Northern area. Permanent and pensionable positions for right applicants.—Apply to Box 905, "The Builder."

GENERAL FOREMAN Required, Housing contract Berkshire. Full experience necessary.—Box 926, "The Builder."

SOUTHERN COUNTIES CONTRACTORS wish to receive particulars from thoroughly experienced GENERAL FOREMEN for contracts commencing 1960/61. This is a good opportunity for the right men to obtain permanent employment in a well organised company.—Apply, giving full particulars of past experience, in strict confidence, Box 938, "The Builder."

BRIGHTON, SUSSEX. SENIOR GENERAL FOREMAN Required for important 2-year contract. First-class qualifications and references will merit high-level salary.—Write, in first instance, with complete details of experience and copies of references, to Box 1511, "The Builder."

FOREMAN WOODWORKING MACHINIST Required by old-established Yorkshire firm engaged on high-class bank work. Applicants must be fully experienced, able to operate all machines and control labour. Accommodation available after trial period.—Apply WM. NICHOLSON & SON (LEEDS), Ltd., P.O. Box 113, Leeds, 10.

BUILDING SUPERVISORS Required for varied and interesting general building and contracting work. Excellent prospects to progress with this expanding group of companies.—Apply, WRAIGHT, Ltd., 23 London-road, Sittingbourne. Tel.: 666.

GENERAL FOREMAN Required for contract for 36 flats Ilford area.—Apply in writing stating age, experience and salary required, to HAMMOND & MILES, Ltd. Scrafton-road Works, Ilford.

GENERAL FOREMAN and TRAINEE GENERAL FOREMAN Required. South side London area.—Written details, experience, age, salary, etc., to T. RINGHAM & CO., Ltd., 4 The Broadway, S.W.19.

CONTRACTS SUPERVISORS Required for Building Contracts in Southern England. Value of contracts range from £4 to one million. Permanent appointments with good prospects and top salary; bonus and superannuation schemes in operation.—Applications to Personnel Manager, T. G. CONSTRUCTION CO., Ltd., Ettingshall, Wolverhampton.

CUBITTS

Applications are invited for positions in South West England for the following :—

CONTRACTS SUPERVISOR

preferably a qualified structural engineer with good experience in control of large structural engineering contracts.

COST SURVEYOR

with good experience of unit costing and incentive bonus schemes.

OFFICE MANAGER
COST CLERKS

The appointments are permanent and offer scope for advancement, together with interesting and varied work and good conditions. Successful applicants will be based at Bristol or on site in South West England, but in the first instance, full details should be sent to—

Personnel Manager (BK8802),
HOLLAND & HANNEN AND CUBITTS (G.B.) LTD.,
1, Queen Anne's Gate, London, S.W.1

TOP-CLASS GENERAL FOREMEN Required for medium- and large-sized building contracts in Southern England. High calibre men required for good salary with bonus scheme in operation.—Apply to Personnel Manager, T. G. CONSTRUCTION CO., Ltd., Ettingshall, Wolverhampton.

GENERAL FOREMAN Required immediately for progressive company in Surrey, to take charge of new housing sites. 4-figure salary.—Applications, giving details of experience, age, etc., to Box 1609, "The Builder."

GENERAL FOREMEN Required for contracts in North West area. Permanency for the right men.—Apply, in writing, giving details of training, experience, age and salary required, to J. JARVIS & SONS, Ltd., 77 Dane-road, Sale, Cheshire.

GENERAL FOREMAN Required for extensive alterations Contract near Amersham, Bucks.—Full particulars as to previous experience and employers, etc., to E. S. GATES, Ltd., Chalfont Station-road, Amersham, Bucks.

GENERAL FOREMAN Required for Contract in the London area for new Church and Convent. Must be capable of carrying out works up to £100,000.—Write stating references and salary required, to Box 1651, "The Builder."

AGENT REQUIRED

for very large contract in the London area. Applicants must have considerable experience in major works involving extensive reinforced concrete construction. Substantial salary is offered, together with bonus. Applicants must have ability to ensure successful production and only those with experience in supervising large contract of this type will be considered.

Apply in writing, stating age, details of experience, etc.

M. J. GLEESON (CONTRACTORS) LTD.,
Haredon House,
London Road, North Cheam, Surrey

SITE SUPERVISOR

Substantial Midlands Structural and Metal Windows firm require Site Supervisor in Erection Department to be resident in the Midlands. Duties will include the supervision on site of a number of contracts within the area and the co-ordination and progress of works in conjunction with Assistants at Head Office and will necessitate the attendance at Site Meetings.

Applicants should be thoroughly experienced in the erection of Structural Steelwork, Windows, Curtain Walling, etc., and have a broad experience of the Building Industry in general, be capable of supervising all aspects of structural and allied works, undertake discussions with Architects and Main Contractors and possess a knowledge of Contract procedure.

Salary in accordance with ability and experience.

Apply, giving full details of age, previous experience, education and present salary to the Secretary,

Box No. 1782, "The Builder"

WIMPEY

BUILDING GENERAL FOREMAN

required for large site organisation in LONDON and the HOME COUNTIES. Applicants must be tradesmen and have had experience in controlling work in one or more of the following classes of building :—

Industrial Developments Multi-Storey Flats Non-Framed Flat Construction Speculative Housing.

Permanent appointments, with good initial salaries and opportunities for promotion. Contributory pension scheme.

Applications, giving age and experience to :

GEORGE WIMPEY & COMPANY LTD.,
27, Hammersmith Grove, London, W.6.
Ref. 81B.

GENERAL FOREMEN

(Building)

MIDLANDS AREA

for a leading Building and Civil Engineering Company with an expanding organisation.

* Must have carried out large scale contracts including concrete framed multi-storey structures.
* Able to adhere to progress schedules and be conversant with planning procedure.
* High salary, superannuation and profit sharing scheme.

Brief particulars to be sent in confidence to:

J. Wright, Director,
C. BRYANT & SON LTD.,
Small Heath, Birmingham 10.

BUILDING STAFF

BRIGHTON, SUSSEX

required for large contract starting shortly.

GENERAL FOREMAN

as section Foreman.

CONCRETE FOREMAN

experienced in economic production of quality concrete and modern machinery, for mixing and placing.

CASHIER & WAGES CLERK

experienced in P.A.Y.E. and general duties.

TIMEKEEPER

MATERIALS CHECKER & STORES CLERK

QUANTITY SURVEYOR

for general measuring, valuations, etc.

All the foregoing will be under control of Site Agent, positions are permanent for the right man and, subject to age, can be pensionable.

Apply with full details to

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IN VOLUNTARY LIQUIDATION

NOTICE IS HEREBY GIVEN that the Creditors of the above-named COMPANY are required on or before the 9th day of November, 1960, to send their names and addresses and the particulars of their debts or claims, and the names and addresses of their Solicitors if any, to the undersigned Richard Oliver Robinson, F.C.A., of Finsbury Court, Finsbury Pavement, London, E.C.2, the Liquidator of the said Company, and, if so required by notice in writing from the said Liquidator, are by their Solicitors, or personally, to come in and prove their said debts or claims at such time and place as shall be specified in such notice, or in default thereof they will be excluded from the benefit of any distribution made before such debts are proved.

Dated this 29th day of September, 1960.
R. O. ROBINSON, Liquidator.

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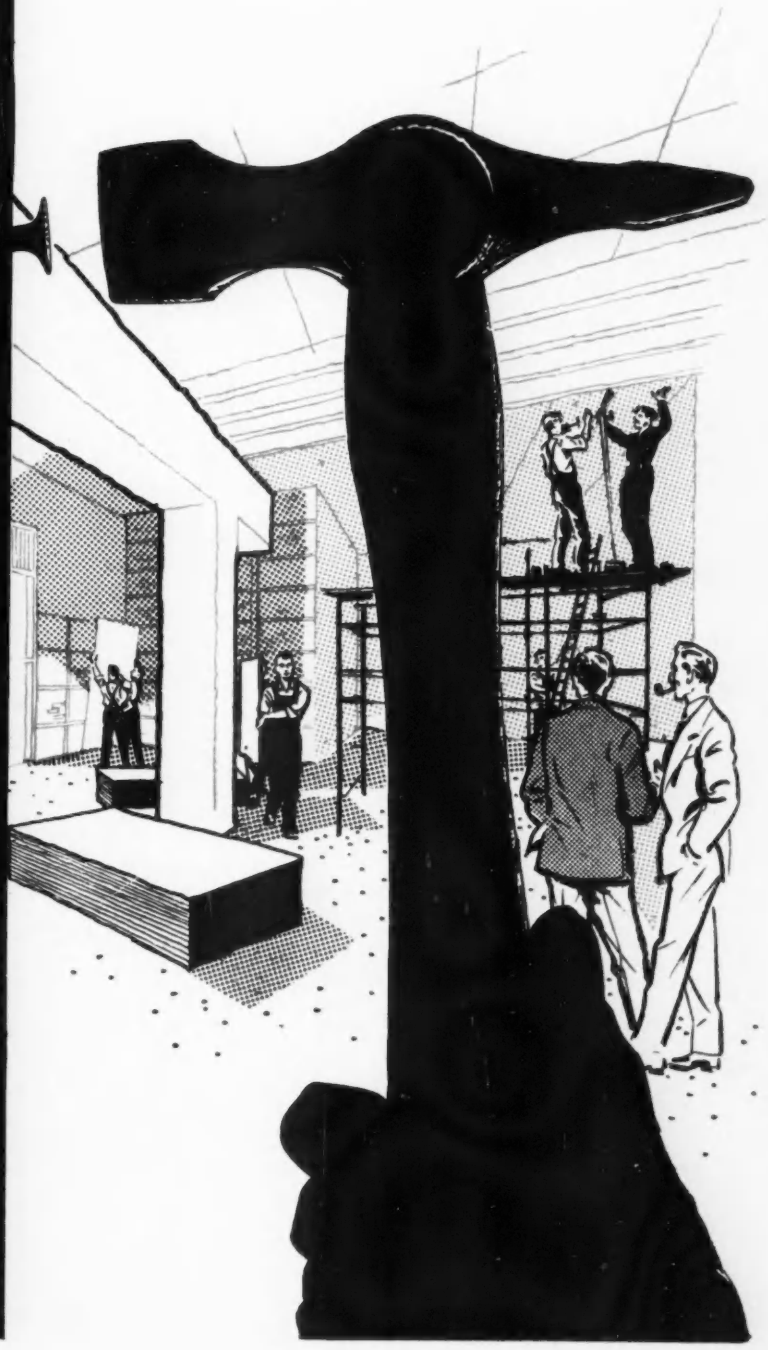

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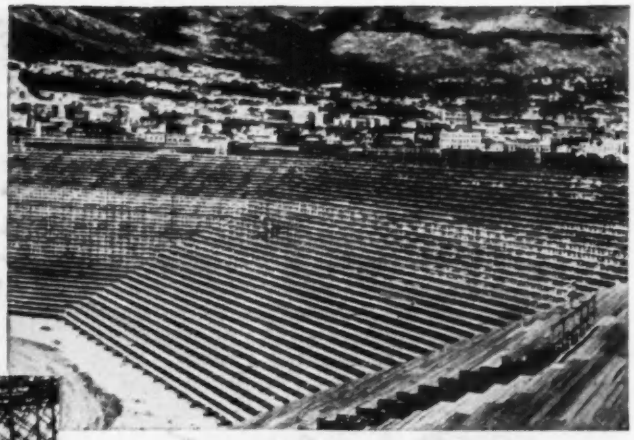

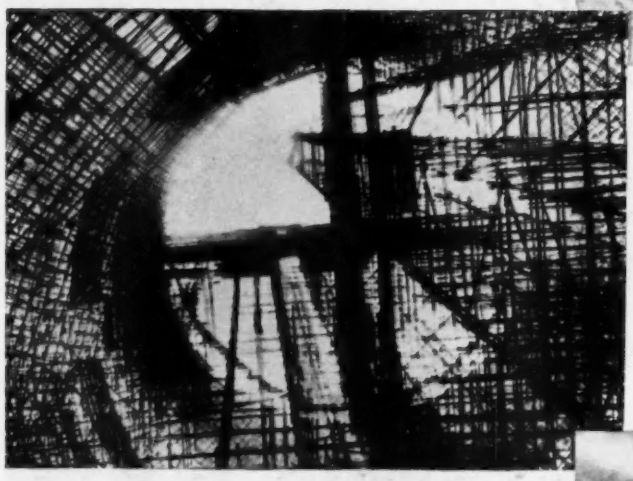

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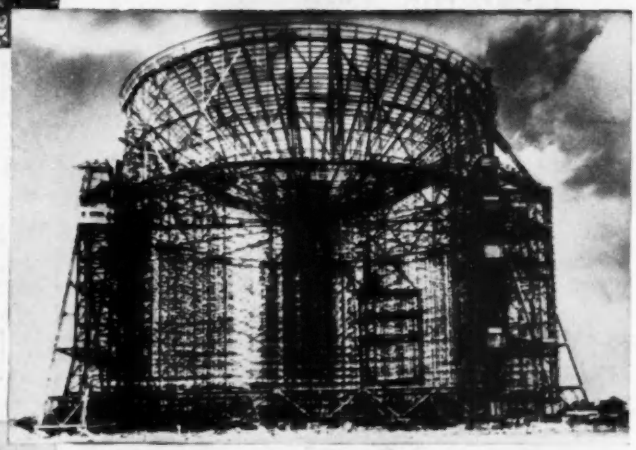

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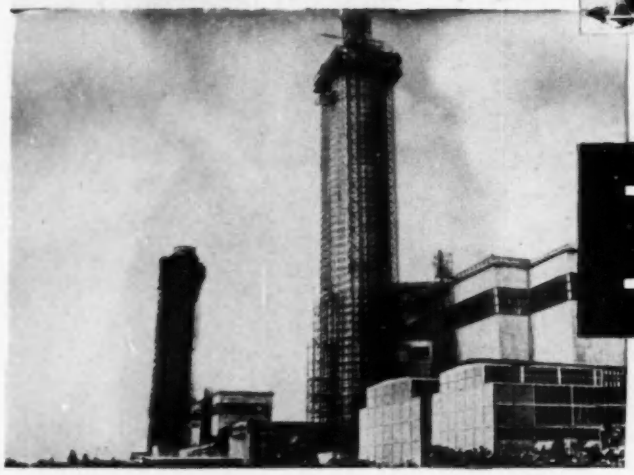

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